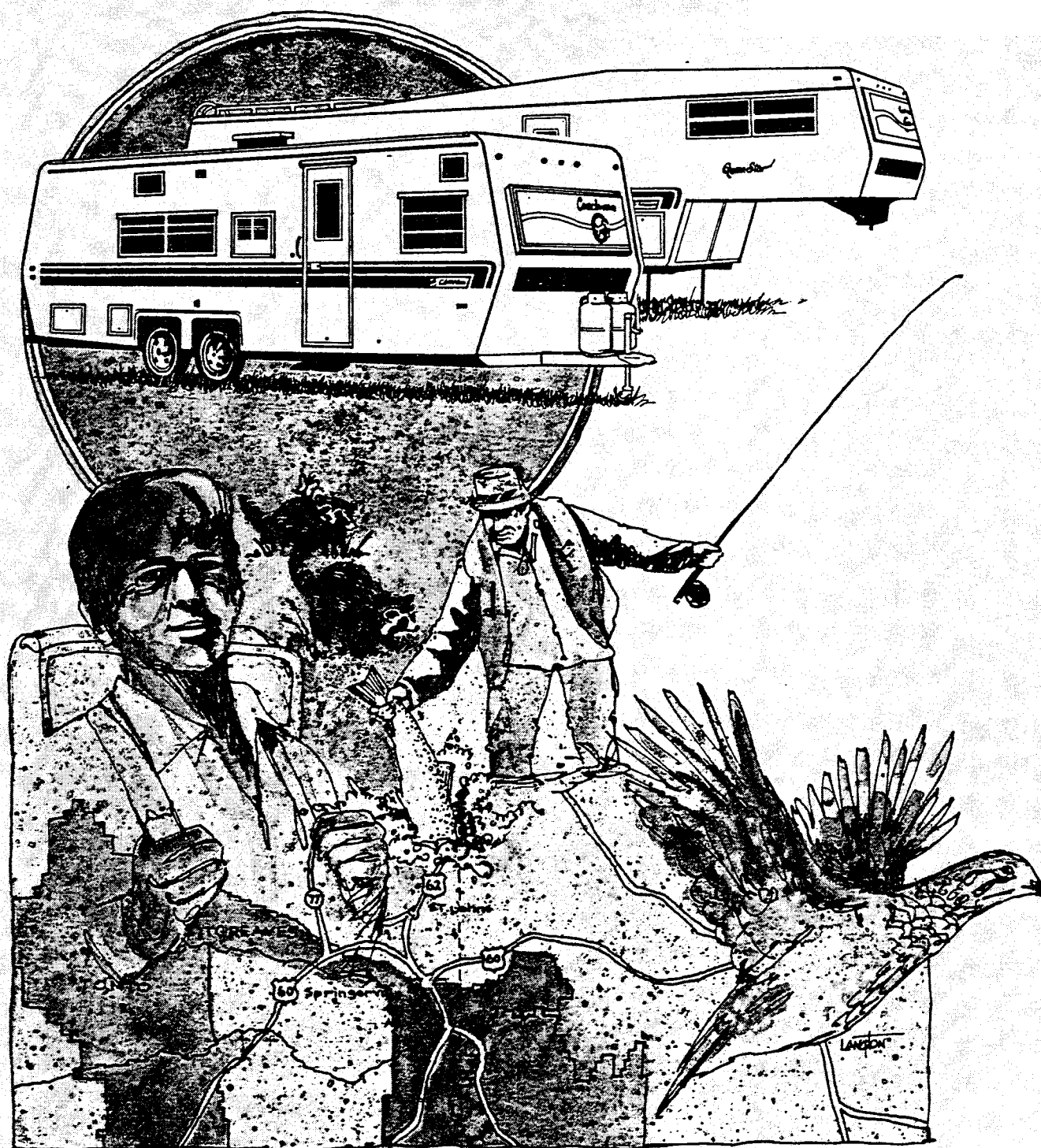


1976



# TRAVEL TRAILER & FIFTH WHEEL

## OWNER'S MANUAL



**Coachmen**  
RECREATIONAL VEHICLES

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## FOREWORD

*Welcome to the Coachmen Family. You will experience many hours of fun, adventure, relaxation and enjoyment with your new Coachmen recreational vehicle.*

*Many years of trailering experience from owners, dealers and our personal experience have been incorporated into the design and engineering of your unit. Your unit has been built by experienced craftsmen to the rigid specifications of Coachmen Industries. Only the finest components and materials have been used.*

The information presented in this manual is intended to provide you with basic instructions which will enable you to operate and maintain the appliances, accessories and RV systems of your unit, whether it is a travel trailer or fifth wheel. Read this manual, along with all other manufacturer manuals, thoroughly before your first trip. By so doing you will enjoy your new Coachmen recreational vehicle to its fullest extent.

Operating and maintenance instructions pertaining to appliances contained in our manual were obtained from and are being used with permission of the various manufacturers. We reserve the right to present edited portions of their material.

*Coachmen Industries, Inc. works year 'round to improve its products. Accordingly, all specifications, equipment, and prices set forth in Coachmen literature are subject to change without notice and/or obligation.*

## TOWING VEHICLE SELECTION GUIDE

Consider the following items before you purchase a towing vehicle. If you own a vehicle, study the following items to determine if it will handle your new Coachmen unit.

### RAVEL TRAILER/FIFTH WHEEL

**ENGINE SIZE** — The engine should have enough horsepower to handle the towing vehicle, unit, passengers, driver, clothing, food, water and other camping gear. This total load is known as the Gross Combination Weight.

**TOWING VEHICLE EQUIPMENT PACKAGE** — Most automobile manufacturers offer a trailer towing equipment package which may include: larger alternator or generator, larger battery, heavier ply tires, heavy duty springs, heavy duty shock absorbers, side view mirrors, larger engine cooling system, along with a larger transmission cooling system.

**NOTE:** *The use of heavier suspension components (springs & shock absorbers) or heavier ply tires does not increase the weight ratings printed on the towing vehicle's identification or certification plate.*

**ADDITIONAL TOWING VEHICLE OPTIONS** — The following items will be helpful to you and your passengers during long trips: automotive air conditioning, automatic transmission, power steering and brakes.

**BRAKE CONTROL** — A brake control device must be installed in your towing vehicle to operate the electric brakes of your unit.

### TRAVEL TRAILER

**HITCH** — Installation of a weight distribution (*load equalization*) hitch is recommended. A portion of the unit's tongue weight is transferred to the front and rear wheels of the towing vehicle. The remaining tongue weight is transferred to the unit's wheels. Because both units will be nearly level, the steering response of the towing vehicle should be improved.

**SWAY CONTROL DEVICE** — Installation of a sway control device is recommended. This device should minimize swaying caused by: crosswinds; wind encountered while passing or being passed by a truck or other vehicle; or dropping the tires off the edge of the road onto a soft shoulder.

### FIFTH WHEEL

The pickup truck must accommodate the kingpin (Pin) weight of the fifth wheel. See the FIFTH WHEEL SPECIFICATIONS section for the PIN weight of your unit.

## INSURANCE

Personal liability, property damage, collision and theft of contents may be features of your automobile insurance policy which apply to your Coachmen unit. Talk to your auto insurance agent for further information. Always carry your policy card.

## INTERNATIONAL TRAVEL

Check your driver's license. Renew it if it has expired or will expire during your trip. Passports are not required for entry into either Canada or Mexico. We recommend that you carry some sort of proof of identity

(Birth certificate, voter registration card, etc.). Contact your auto insurance agent. Special temporary insurance coverage provisions may have to be made.

**CANADA** Each province has its own fishing and hunting laws and licenses. You must present a written description of each rifle or shotgun, along with each serial number, to the customs official at the border. Revolvers, pistols, fully automatic rifles and weapons with an operational length of less than 26" are prohibited. Dogs and cats — You must carry a certificate, signed by a licensed veterinarian, which describes the pet and attests that the animal has had a rabies shot within the past 12 months.

**MEXICO** You must carry a tourist card. One may be obtained either at the port of entry or from a Mexican consulate. If you intend to hunt, you must obtain a firearms permit before your trip. Dogs and cats — You must carry a certificate, signed by a licensed veterinarian, which describes the pet and attests that the animal has had a rabies shot within the past 6 months. You will have to pay a nominal fee at the border for a pet permit.

For further information regarding regulations, points of interest and campsites, contact the appropriate consulate.

## TRAVEL PREPARATION

The following list is presented to aid you in deciding what clothing and equipment to take along. It also includes a few basic procedures which should be considered before each trip.

**CLOTHING** — Compile a clothing list for each person. Consider season and geographical location through which you intend to travel. Basic articles: Underwear, socks, footwear, shirts or blouses, trousers or slacks, dresses, shorts, sweater, jacket or coat, rainwear and swim suit.

**PERSONAL HYGIENE** — Toilet paper, soap, washclothes, towels, toothpaste, deodorant, and shaving kit.

**CAMP HYGIENE** — Dishsoap, dishcloth and dish-towel; garbage and trash bags; mop, broom and dustpan.

**SAFETY** — Flares and reflectors; first aid kit; tow rope and/or chain.

**FOOD & WATER** — Take along enough food for 3 complete meals for each person. Consider how much water will be required for self-contained operation.

**MEAL PREPARATION** — Bottle cap and can opener; matches, lighter or igniter device; pots and pans; plates, glasses, and cups; silverware and carving knife.

**TOOL CHEST** — Include an assortment of wrenches, pliers, hammer, screwdrivers, tire pressure gauge, electrical and masking tape.

**ADDITIONAL TOOLS** — Hatchet, saw, shovel, and 12 volt portable tire pump.

**SET-UP** — All trailers — water hose and bucket; 16' & 17' Cadet Travel Trailers — carry an additional hose and bucket for gray water septic system; "Y" type water hose fitting; 20' long 3 prong adaptor with grounding wire; wheel chocks; 2 step leveling ramp (FIG. 1).

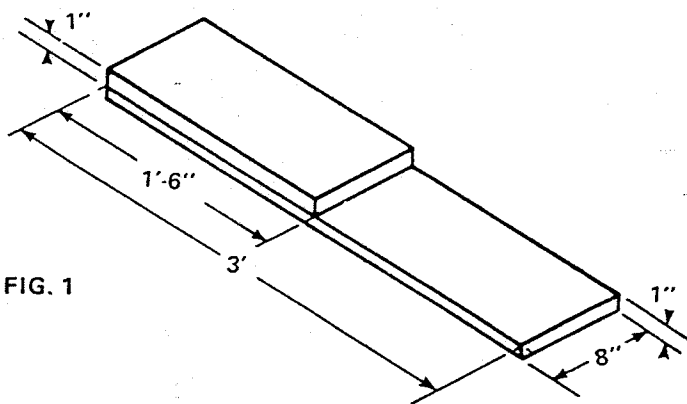


FIG. 1

**SLEEPING GEAR** — Pajamas, pillows, sheets, blankets or sleeping bags.

**ENTERTAINMENT** — Take along games and toys for rainy day entertainment.

**IMPORTANT DOCUMENTS** — Vehicle registration and insurance policy card(s).

**TOURIST INFORMATION** — Obtain current road maps and tourist information for each state through which you intend to travel. Purchase a tourist guide book.

**HOME SECURITY** — Give a trusted neighbor, friend or relative a house key and your travel itinerary. Make arrangements for someone to check your house at least once a week. If you intend to be away for more than 2 weeks, request police surveillance. Stop mail and newspaper delivery. Carry an extra set of vehicle and house keys on a separate key ring.

## LOADING

**GENERAL** — Distribute the cargo load equally from side-to-side and front-to-back. Store heavier items on or close to the floor. Lighter items may be stored in overhead cabinets. Lash down items which are too bulky to store in cabinets, closets or drawers.

**ACTUAL GROSS AXLE WEIGHT (GAW)** — We strongly recommend that you obtain your unit's ACTUAL (GAW).

**STEP 1** — Look in yellow pages of the telephone book for the listing of a grain elevator, sand or gravel dealer or government operated weighing station.

**STEP 2** — Drive to the weighing station with the trailer loaded with water, LP Gas and cargo.

**STEP 3** — Check the levelness of the weighing platform. Also check the levelness of ramps just off the platform. Drive forward until the towing vehicle is just off the platform.

**NOTE:** GAW is affected by the levelness of both units as well as the weighing facility.

**STEP 4** — With the trailer hitched to the towing vehicle, have the scale operator take a reading.

The ACTUAL GAW must never exceed the TOTAL GROSS AXLE WEIGHT RATING — TOTAL (GAWR).

**NOTE:** The Federal Sticker displays your unit's Front and Rear GAWR's and the GROSS VEHICLE WEIGHT RATING (GVWR). Add the Front and Rear GAWR's to obtain your unit's TOTAL (GAWR). This sticker will be found on the road side, front corner of your unit.

**DETAILED PROCEDURE** — If so desired, you may predict your unit's approximate TOTAL LOADED AXLE and TOTAL LOADED PIN weights by performing the following 9 steps.

**STEP 1** — Establish loading zones forward of the axle(s) by dividing the center line distance between the pin and either single or tandem axles by 10. See the SPECIFICATIONS section, which pertains to your trailer, for Center Line Distance.

Using the same zone size, establish zones behind the axle(s).

**STEP 2** — Write the weight of additional items in the zone of FIGURE 2A where each will be located. If the item will cover more than one area, enter the entire value in the zone where the most weight is located. See FIGURE 2B for the list of additional items.

**STEP 3** — Write the approximate weight of supplies and equipment in the zone of FIGURE 2A where each will be located. As in STEP 2, if the item will cover more than one area, enter the entire value in the zone where the most weight is located. See the Supplies & Equipment List for the approximate weight of various items.

### SUPPLIES & EQUIPMENT LIST

#### MISCELLANEOUS GEAR

ITEM	APPROX. WEIGHT	
	LBS.	KG
Air Mattress	5	2.27
Aluminum Camp Cot	7	3.17
Aluminum Camp Cot W/Mattress	22	9.97
Army Cot	15	6.80
Auto Hand Vacuum	5	2.27
Ax	3-6	1.36-2.72
Battery	37-50	16.76-22.65
Battery Box (for boat)	3	1.36
Battery Charger	10	4.53
Bicycle	45	20.39
Binoculars	1½-5	.68-2.27
Booster Air Shocks	14	6.43
Broom	2	.91
Bucket/Wastebasket	2	.91
Camera	3	1.36
Camera Outfit, Polaroid	7	3.17
Camp Folding Stool	1	.45
Camp Folding Table	16	7.25
Camp Stove	18	8.15

Camper Fan	4	1.81
Camper Fold-away Steps	18-19	8.16-8.61
Camper Generator, 1100 Watt	70	31.71
Camper Stabilizer	8	3.62
Camper Sundeck & Ladder	19	8.61
Canopy	18	8.16
Canteen (2-quart)	1	.45
Catalytic Heater	8	3.62
Chain Saw & Case	18	8.16
Charcoal	10	4.53
Charcoal Fluid Igniter	1	.45
Chess/Checkers/Games	1	.45
Clothes Line (50 foot)	1½	.68
Clothes Pins (package)	½	.23
Compass	¼	.11
Double Bass Drum Set (15 pc.) with cases	110	49.83
Electric Cable (100 feet)	10	4.53
Electric Fan 12"	10	4.53
Envelopes/Stamps	¼	.11
Extension Rear Bumper	123	55.72
Extinguisher	5-17	2.27-7.70

Film, 4 rolls	1	.45
First Aid Kit	3	1.36
Flag/Reflector Kit	7	3.17
Flare	1/2	.23
Flashlight	1	.45
Floor Mats	11	4.98
Front Tire Carrier	7	3.17
Funnels (water, fuel)	1/2	.23
Gas Lantern	6	2.72
Gas Stove (2 burner)	11	4.98
Gasoline Emergency Can (5 gal.)	11	4.98
Grease Gun and Grease	14-15	6.43-6.80
Ground Cloth	1	.45
Guide Book	2	.91
Hammer	1-2	.45-.91
Hand Saw	2-3	.91-1.36
Hand Spotlight	2	.91
Hatchet	2-3	.91-1.36
Hiking Pack	3	1.36
Insect Fogger	7	3.17
Inverter, 12-volt	13	5.89
Iron	2 1/2-4	1.13-1.81
Laundry Bag	1	.45
Level	1	.45
Maps (8)	1	.45
Mess Kit (aluminum)	2	.91
Mosquito Repellent (can)	1 1/2	.68
Movie Camera (8 mm)	4-8	1.81-3.62
Oil Paints	5-11	2.27-4.98
Easel	6	2.72
Padlock & Chain	1	.45
Picnic Blanket	3	1.36
Playing Cards (2 decks)	1/2	.23
Portable Toilet	20-30	9.06-13.59
Power Intercom	4	1.81
Propane (20-gal. bottle)	45	20.39
Propane Cylinders (disposable)	2	.91
Radio, 2-way, 6-watt	7-8	3.17-3.62
Radio, portable	6-16	2.72-7.25
Refrigerator	100	45.30
Rope (100 ft., 3/8")	14	5.34
Roof Top Camper Air Conditioner	150	67.95
Sewer & Water Hook-up Kit	10	4.53
Sewing Machine	20-50	9.06-22.65
Shovel	4-5	1.81-2.27
Shovel (folding)	3	1.36
Spare Oil (10-qt. can)	20	9.06
Stake Pocket Camper Hold-Downs (2)	9	4.08
Stereo Tape Player	10	4.53
Swing-Out Spare Tire Carrier	17	7.70
Tape Recorder	4-20	1.81-9.06
Tarp (10' x 12')	20	9.06
Television, Battery-Powered	10	4.53
Television, Portable B.W.	20	9.06
Television, Portable Color	61-76	27.63-34.43
Tent, pup	12	5.44
Tent, large	70-80	31.71-36.24
Tire Chain Kit	3	1.36
Tire Gauge	1/2	.23
Tire Iron	4	1.81
Tire Repair Kit	1/4	.11
Thermos (1 qt. steel)	3 1/2	1.59
Thermos (2 qt. plastic)	5	2.27
Tool Kit (65 piece mechanic)	15-21	6.80-9.51
Trailer, Cycle	225	101.93
Trailer, Tent	425-832	192.53-376.90
Trailer, Utility 1/4 ton	195	88.34
Travel Information	1/4	.11
Truck Washing Brush	3	1.36
Tune-up Kit	20	9.06
Two-Suiter Case	11	4.98
Typewriter	11-24	4.98-10.87
Umbrella	2	.91
Vacuum	10-36	4.53-16.31
Water Heater	68	30.80
Water Purification Tablets	1/4	.11
Water/Tire Pump	6	2.72
Week-end Case	7	3.17
Writing Pad	1/4	.11

## CLOTHING

ITEM	APPROX. WEIGHT	
	LBS.	KG
Blouse, Shirt	1 1/2	.68
Coat, lined	4	1.81
Culotte	3/4	.34
Dress, Skirt	3/4	.34
Jacket, lined	2 1/2	1.13
Jeans, Slacks	1-2	.45-.91
Pajamas	1	.45
Raincoat	3-4	1.36-1.81
Shoes	1-3	.45-1.36
Shorts	1/4-3/4	.23-.34
Sunglasses	1/4	.11
Sweater	1	.45
Swimsuit & Pullover	1 1/2	.68
Windbreaker	3/4	.34

## SPORT ITEMS

ITEM	APPROX. WEIGHT	
	LBS.	KG
Anchor (boats up to 14 ft.)	10	4.53
Semi-V Aluminum Boat	118-257	53.45-116.42
Boat Trailer	135-240	61.16-108.72
Canoe (aluminum)	65-75	29.45-33.98
Fishing Boat (fiberglass)	125	55.63
Fishing Kit with light tackle box	6	2.72
Fishing Motor (electric)	9-23	4.08-10.42
Jon Boats (10-16 ft. aluminum)	62-250	28.09-113.25
Outboard Motors up to 5 1/2 hp	42-54	19.03-24.46
Remote Gas Tank (for boat)	5	2.27
Rubber Boat (8 persons)	85	38.51
Rubber Boat (2 persons)	15	6.80
Safety Vest (adult)	3	1.36
Safety Vest (child)	2	.91
Tackle Box (large)	8	3.62
Oars	10	4.53
Cartridges (20)	2	.91
Duck Decoys	9	4.08
Gun Case	2	.91
Gun Cleaning Kit	3	1.36
Hunting Bow	4	1.81
Arrows (6)	1	.45
Hunting Knife	1/2-1	.23-.45
Rifle (30.06)	7-12	3.17-5.44
Scope	1	.45
Shotgun	9	4.08
Shotgun Shells (5)	1	.45
Golf Bag	6-13	2.72-5.89
Golf Cart	16	7.25
Golf Irons (8)	11	4.98
Golf Set (child's)	11	4.98
Golf Woods (4)	7	3.17
Bat/Ball/Glove	6	2.72
Boots	3-5	1.36-2.27
Mini-Bike	84-170	38.05-77.01
Scuba Gear (with tank)	71	32.16
Skates	3-4	2.72-1.81
Snow Skis, Bindings, Boots & Poles	23-27	10.42-12.23
Water Skis	15-16	6.80-7.25
Tennis Racket with Cover, Press. Balls	3	1.36
Pool Table (8-ft.)	306	138.62

## BASIC KITCHEN ITEMS

ITEM	APPROX. WEIGHT	
	LBS.	KG
Abrasive Pads (package)	1/4	.11
Bags, Disposable (package)	1 1/2	.68
Basin/Rack (plastic)	2	.91
Bottle Opener	1/4	.11
Can Opener (crank)	1	.45
Coffee Pot	1-3	.45-1.36
Cookbook	3	1.36
Cookware Set (8-piece aluminum)	11	4.98
Cookware Set (8-piece Stainless steel)	15	6.80
Cooler (48-quart)	15	6.80
Cups, Disposable (40)	3/4	.34
Cutting Board	1 1/2	.68

Dinnerware (45-pc. plastic)	16	7.25
Dish Cloth (12" x 12")	1/8	.06
Dish Towel	1/4	.11
Dishes (53-piece for 8)	40-60	18.12-27.18
Foil (cooking)	1/2	.23
Fry Pan (skillet-15")	13	5.89
Glasses (8 plastic)	1 1/4	.79
Juice Container (plastic)	1/2	.23
Knives (kitchen)	1 1/4	.57
Matches (carton)	1/2	.23
Mixer (portable)	3-5	1.36-2.27
Oven-Broiler	10-18	4.53-8.15
Plate Scraper	1/4	.11
Plates (40 disposable)	1/2	.23
Pots & Pans (10 pieces)	14	6.84
Pot Holders	1/8	.06
Soap/Detergent (box)	1	.45
Spatula/Pancake Turner	1/2	.23
Sponge	1/4	.11
Stirring Spoon	1/4	.11
Table Covering (plastic)	1/2	.23
Tableware (50 pc. stainless)	7	3.17
Thermos (1 gallon aluminum)	4	1.81
Toaster	1-3	.45-4.08
Tongs	1/2	.23
Towel, Paper (per roll)	3/4	.33
Trash Caddy	2	.91

#### BASIC OUTFIT FOOD AND BEVERAGE CHECKLIST

ITEM	APPROX. WEIGHT	
	LBS.	KG
Apple (large)	1/2	.23
Bacon/Sausage	1	.45
Baking Soda (box)	1	.45
Banana (large)	1/2	.23
Beverage (can)	1	.45
Bread	1	.45
Breakfast Cereal (box)	1/2	.23
Butter/Margarine (carton)	1	.45
Catsup (bottle)	1 1/4	.57
Chili (can)	1 1/4	.57
Cocoa	1 1/4	.57
Coffee (1 lb.)	1	.45
Cookies (package)	1	.45
Cooking Oil (quart)	1 1/2	.68
Corned Beef Ham (can)	1 1/4	.57
Crackers	1	.45
Egg (fresh or hardboiled)	1/4	.06
Flour/Pancake Mix (box)	1	.45
Fruit (1 lb. can)	1 1/4	.57
Fruit Juice (can)	1	.45
Jelly/Jam	1 1/4	.57
Macaroni/Spaghetti (can)	1 1/4	.57

Milk (dried)	1 1/4	.57
Milk (pint, carton)	1	.45
Mustard (bottle)	1 1/4	.57
Napkins (package)	1/4	.11
Olives (jar)	1	.57
Orange (fresh, large)	1/2	.23
Peanut Butter	1 1/4	.57
Pickles (jar)	1	.45
Pork & Beans (lb. can)	1 1/4	.57
Potatoes Rice	4	1.81
Poultry Meat Fish	4	1.81
Salad Dressing	1 1/4	.57
Salt & Pepper (container)	1/2	.23
Soup (can, condensed)	3/4	.34
Spam (can)	1	.45
Spices (assortment)	1	.45
Stew (can)	1 1/4	.57
Sugar (box)	1	.45
Syrup	1	.45
Tea (box of bags)	1/4	.11
Vegetables (lb. can)	1 1/4	.57
Vegetables (fresh)	1 1/2	.68
Water (per gallon)	8.0	3.62

#### BATHROOM SUPPLIES

ITEM	APPROX. WEIGHT	
	LBS.	KG
Bath Cap	1/4	.11
Bath Towel (22" x 24")	1/4	.34
Chemicals (Toilet)	1	.45
Cosmetic Case	5	2.27
Facial Tissue (box)	1/4	.34
Hand Mirror	1	.45
Hand Soap (bar)	1/4	.11
Hand Towel (16" x 25")	1/2	.23
Shampoo (tube)	1/4	.11
Shaving Cream (can)	1	.45
Shaving Kit	2	.91
Sponge	1/4	.11
Suntan Oil	1/4	.11
Toilet Paper (roll)	1/2	.23
Toothbrush Holder	1/4	.11
Toothbrush & Toothpaste (tube)	3/8	.28
Wash Cloth (12" x 12")	1/4	.06

#### BEDDING

ITEM	APPROX. WEIGHT	
	LBS.	KG
Blanket (twin)	2-5	.91-2.27
Pillow	1-2	.45-.91
Pillowcase	1/2	.23
Sheet, disposable	3/8	.28
Sheet, twin	1-2	.45-.91
Sleeping Bag (cold weather)	13	5.89
Sleeping Bag (double)	16	7.25

STEP 4 — Total the zone weight columns of STEPS 2 and 3.

STEP 5 — Multiply each zone total by indicated percentages.

STEP 6 — Write your unit's AXLE WT. and PIN WT. in boxes A and B respectively. See the SPECIFICATIONS section, which pertains to your trailer, for DRY WEIGHT — STANDARD, NO OPTIONS.

STEP 7 — Total the AXLE and PIN columns of STEPS 5 & 6. Write the sum in the appropriate box. Be sure to deduct the negative percentage (-%) weights from the Pin Weight Total 7B.

STEP 8 — Divide STEP 7A into 7B. The quotient must be between 12 to 19% for travel trailers and 25 to 28% for fifth wheel trailers. If the quotient is less than the minimum percentage, the supplies and equipment

(STEP 3) must be relocated forward of the axle(s).

STEP 9 — Check your computation by following the ACTUAL GROSS AXLE WEIGHT (GAW) procedure.

(SEE FIGURES 2A, 2B & 2C PAGES 7 & 8.)

**WEIGHT TRANSFER** (Travel Trailer) — Estimate the amount of weight which may be transferred to the front and rear wheels of the towing vehicle and the trailer wheels by the weight distribution hitch. *The proportion of weight transferred between the towing vehicle and trailer wheels may be adjusted — see the hitch manufacturer's instructions for details.*

A. Write the TOTAL LOADED PIN WEIGHT (Step 7B) in BOX A of figure 2C.

B. Write the desired hitch weight in BOX B.

C. Subtract B from A and write the difference in BOX C.



--- TRAVEL TRAILER  
 --- FIFTH WHEEL

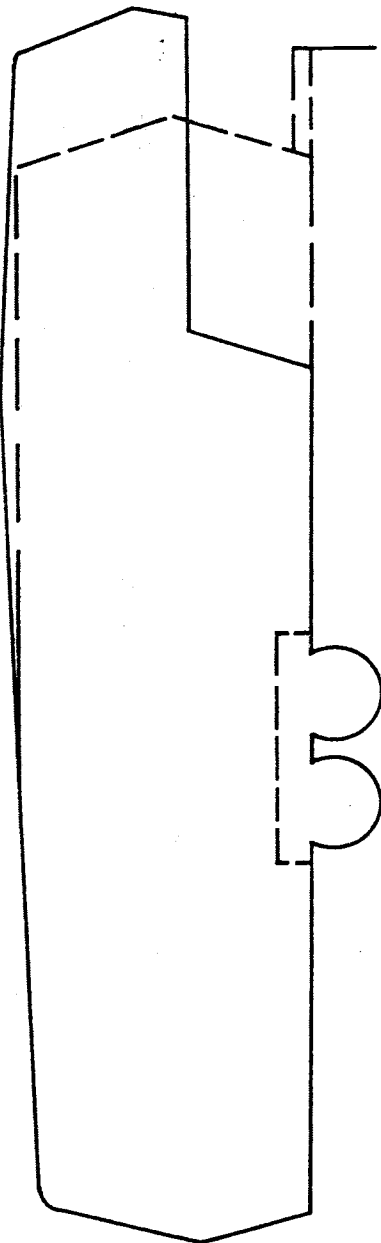


FIG. 2A

STEP 1	ZONES										STEP 2							
	7R	6R	5R	4R	3R	2R	1R	1F	2F	3F		4F	5F	6F	7F	8F	9F	10F
STEP 3	ADDITIONAL WEIGHT																	
STEP 3	MISC. GEAR																	
	CLOTHING																	
	SPORTS ITEMS																	
	KITCHEN ITEMS																	
STEP 3																		

FIG. 2E

4 KW GENERATOR	LBS.	KG.
LUGGAGE RACK, LADDER & SUPPORT BACKING	325	147
ROOF AIR CONDITIONER	89	40
12,000		
13,500		
SPARE TIRE, WHEEL, CARRIER & COVER	127	58
T.V. ANTENNA	134	61
12 VDC BATTERY	66	30
WATER	9	4
	45	20
	8.3	3.8

STEP 4		TOTAL LOADED AXLE WEIGHT STEP 7										TOTAL LOADED PIN WEIGHT						
AXLE		165	155	145	135	125	115	105	95	85	75	65	55	45	35	25	15	5
STEP 5	%																	
	WT																	
STEP 6	%																	
	WT																	
STEP 7		STEP 7A										STEP 7B						
STEP 8		TOTAL LOADED HITCH WEIGHT										%						

D. Write the TOTAL LOADED AXLE WEIGHT (STEP 7A) in BOX D.

E. Add C and D and write sum in BOX E. This represents the total loaded axle weight with estimated equalizer transfer effect.

F. With the trailer loaded for travel and hitched to the towing vehicle, check the actual weight transfer effect on the axle(s) by following the ACTUAL GROSS AXLE WEIGHT (GAW) procedure.

FIG. 2C

A TOTAL LOADED PIN WEIGHT (FROM STEP 7B)
B DESIRED HITCH WEIGHT
C RESULTANT
D TOTAL LOADED AXLE WEIGHT (FROM STEP 7A)
E SUM WHICH REPRESENTS THE EQUILIZER TRANSFER EFFECT

## TOWING HOOK UP TRAVEL TRAILER

**COUPLER** — Crank the front jack clockwise to raise the coupler above the hitch ball. Maneuver the towing vehicle to position the ball directly under the coupler. Crank the jack clockwise to lower the coupler to the hitch ball.

Push the coupler lever down (1) and back (2) to its fullest extent (FIG. 3). Lower the coupler onto the ball. Secure connection by pushing lever forward (3). The two notches at the rear of the lever must rest on top of the coupler. Insert a locking device through the coupler lever and the bracket holes. You may purchase a locking device from your Coachmen Dealer.

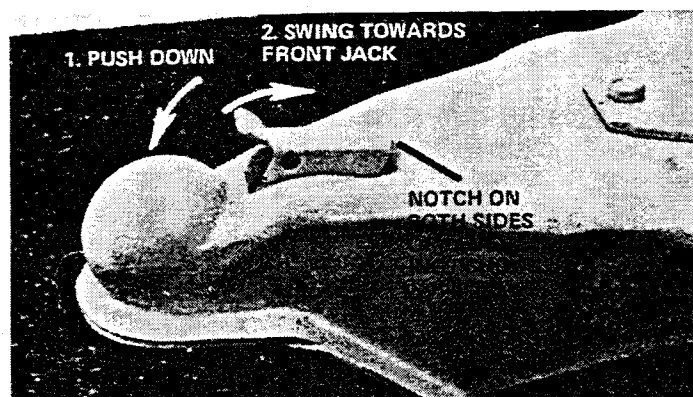


FIG. 3

**FRONT JACK** — Crank the front jack counter clockwise until the dolly wheel is off the ground. Loosen, but do not remove, the thumb screw which holds the dolly wheel to the jack stand (FIG. 4). Remove wheel and store. Crank the jack all the way up. If this procedure is not followed, the front jack stand may be damaged if it should happen to dig into the ground or pavement.

**SAFETY CHAINS & ELECTRICAL CONNECTION** — Cross the safety chains under the "A" frame and attach them to the towing vehicle's hitch platform. Plug the electrical pigtail into the towing vehicle's electrical

harness. Leave enough slack in the chains and pigtail to allow the unit to turn freely. However, they must never drag on the ground.

**BREAK-AWAY SWITCH** — The break-away switch is a safety device that will activate the trailer's electrical brakes if the coupler should accidentally separate from the hitch, provided the activating cable is hooked up correctly.

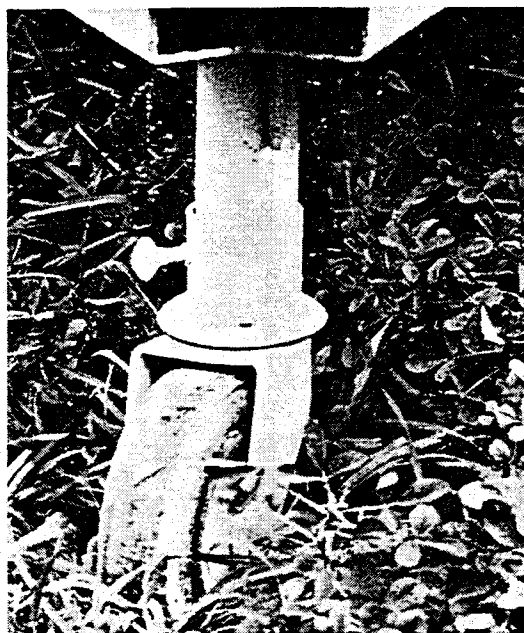


FIG. 4

Attach the switch activating cable to either the towing vehicle bumper or the towbar portion of the hitch platform. We recommend that you not loop the cable around the hitch ball. The hitch ball attachment is the weakest part of the hitch platform. Adjust the cable length so it will pull the pin out of the switch before the coupler drops onto the safety chains. Allow enough slack in the cable so both vehicles turn freely without pulling the pin from the switch.

The towing vehicle battery will apply your unit's brakes if the coupler accidentally separates from the hitch. However, if the pigtail is pulled out of the harness during this accidental separation, electricity must come from a battery located on your unit.

*Deluxe Units* — The break-away system is connected to the interior electrical system battery.

*Cadet Units* — If your unit is not equipped with the optional battery, you must purchase a 12-Volt dry cell battery from your Coachmen Dealer.

**COUPLER HEIGHT** — After the trailer has been hitched to the towing vehicle, check the coupler height (FIG. 5). A high hitch will transfer weight behind the axle(s). This condition may cause the trailer to fishtail. A low hitch will transfer weight ahead of the axle(s). This condition will transfer additional weight to the hitch.

## FIFTH WHEEL

**HITCHING** — Lower or remove the truck tailgate. Release the plate jaws by pulling the handle until a snap is heard (FIG. 6). Back up the truck until the pin is caught by the jaw plates, another snap will be heard. Check the release handle and the spring loaded lock

rod. The rod must be holding the handle against the hitch base plate.

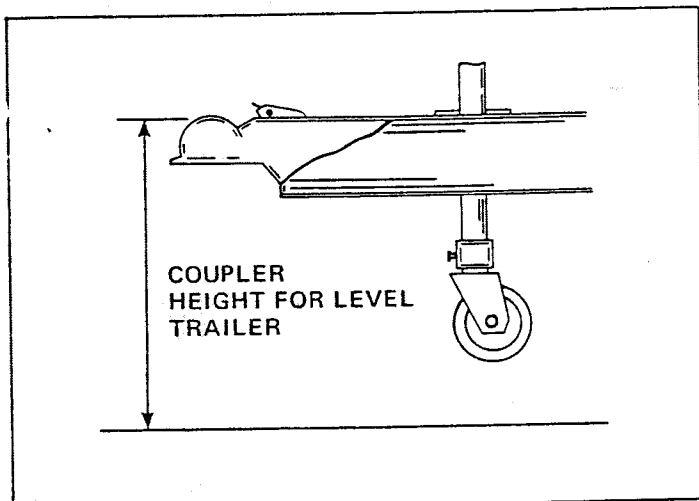


FIG. 5

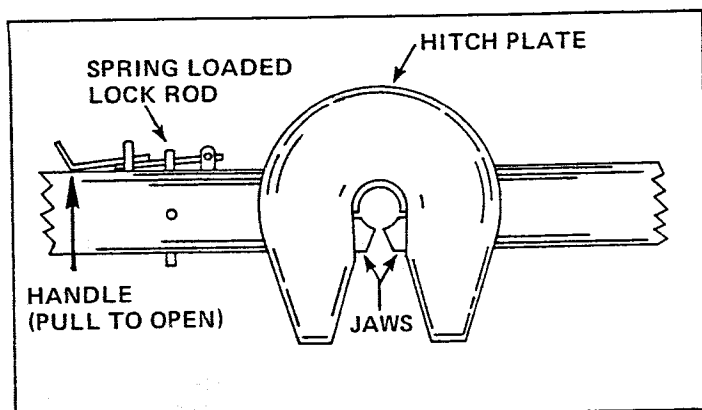


FIG. 6

Turn the crank handle counter-clockwise to raise the jack stands. Be sure they are raised as far as possible. If this procedure is not followed, one or both stands may be damaged if they should happen to dig into the ground or pavement.

**ELECTRICAL PIGTAIL CONNECTION** — Plug the electrical pigtail into the truck's electrical harness.

**BREAK-AWAY SWITCH** — The break-away switch is a safety device that will activate the trailer's electric brakes if the king pin accidentally separates from the plate, provided the activating cable is hooked up correctly.

Attach the activating cable to the truck body. **DO NOT** attach cable to the plate handle, hitch plate base, or plate mounting brackets. Adjust cable so both vehicles may turn freely without pulling the pin from the switch.

The towing vehicle battery will apply your unit's brakes if the kingpin accidentally separates from the hitch plate. However, if the pigtail is pulled out of the harness during this accidental separation, electricity must come from a battery located on your unit.

**Quinstar Units** — The break-away system is connected to the interior electrical system battery.

**Cadet Units** — If your unit is not equipped with the optional battery, you must purchase a 12-Volt dry cell battery from your Coachmen Dealer.

**GROUND CLEARANCE** — After hitching the trailer, check the ground clearance of the cabover (FIG. 7). If the

front of the unit is too high, weight will be transferred behind the axles. This condition may cause your unit to fishtail. If the front of your unit is too low, weight will be transferred ahead of the axles. This condition will place additional weight on your truck through the kingpin.

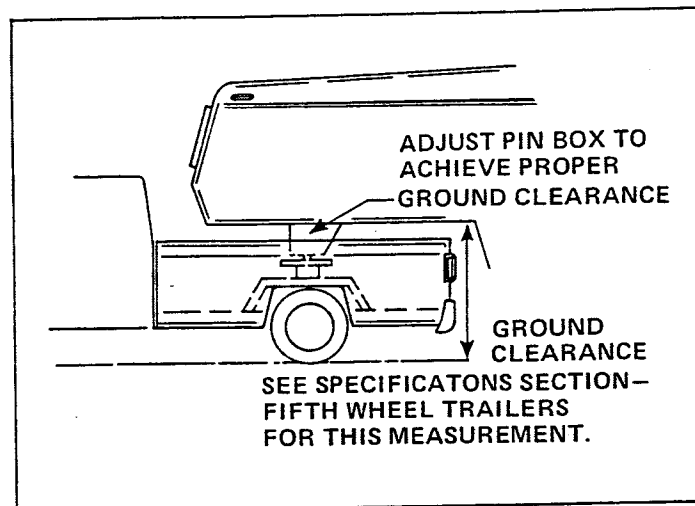


FIG. 7

## PRE-TRAVELING CHECK

Whether you intend to pull away from your home, rest area, or campsite, we suggest that you perform the following pre-traveling checks.

### TRAVEL TRAILER/FIFTH WHEEL

**TIRES** — Check each tire for uneven or excessive treadwear, cuts, peeling or bulging. Change damaged tire as directed in the CARE & MAINTENANCE section.

Check tire air pressure at least once each trip. This must be done before driving; air pressure will be 6 to 9 lbs. greater due to heat generated by road friction. *See the appropriate Specifications section for tire air pressure.*

**WHEELS** — During your initial trip and after changing each tire, tighten the wheel lugs every 50 miles for the first 200.

**PIGTAIL CONNECTION** — The electrical pigtail must be plugged into the towing vehicle's electrical harness. Check to make sure there is a solid connection.

**LIGHTS** — Test all running lights (*tail, stop, clearance & backup*). Clean the lens covers.

**MIRRORS** — Adjust outside rearview mirrors. We suggest they be adjusted so that you may see both right and left sides of your unit.

**BREAK-AWAY SWITCH ACTIVATOR CABLE** — The Break-away switch activator cable must be attached to the towing vehicle as directed in the TOWING HOOK UP section.

**SET UP EQUIPMENT & ACCESSORIES** — *For further information on any of the following items, see SET UP, DESCRIPTION & OPERATION OF SYSTEMS, or APPLIANCES & ACCESSORIES section.*

**Power Cord** — Unplug power cord from shoreline source. The cord must be stored inside the unit and the hatch must be secured. (FIG. 15 A or B).

**City Water** — Disconnect water hose from city water fixture and pressurized water faucet. The fixture cap must be closed and secured (FIG. 11).

**SEWAGE DUMP VALVE(S)** — Close and lock the

dump valve(s) (FIG. 12 A or B). Remove and store septic hose in its traveling position inside the rear bumper (FIG. 14). Secure dump valve cap(s) to valve outlet(s).

**Exterior storage & Equipment Access Compartment Doors** — Close and lock exterior storage and equipment access compartment doors.

**LPG** — Turn off the LPG at the POL valve (FIG. 9A or B).

**Refrigerator** — Switch the refrigerator to operate off of 12 VDC (FIG. 26).

**Step** — Return the step to its traveling position.

**TV Antenna** — Crank the antenna down to its traveling position (FIG. 27).

**Windows & Vents** — Close and secure all windows and vents.

**Awning** — Lower and secure the awning with latches.

**Doors & Drawers** — Close and secure all doors and drawers.

### TRAVEL TRAILER

**HITCH** — Coupler must be securely fastened to the hitch ball.

**SAFETY CHAINS** — Both safety chains must be crossed under the coupler and hooked to the hitch platform. They must not drag on the ground while driving along a straight line, nor prevent both vehicles from turning freely.

**FRONT JACK** — Check the front jack stand. It must be raised as far as possible.

### FIFTH WHEEL

**HITCH** — Check the release handle and the spring loaded lock rod. *The rod must hold the handle against the hitch plate base (FIG. 6).*

**FRONT JACKS** — Check the front jack stands. They must be raised as far as possible.

## DRIVING

Your driving habits will have to be somewhat modified in order to compensate for the length of the unit and the additional weight placed on the towing vehicle.

**TURNING** — Because the turning radius of the trailer is tighter than the towing vehicle's, pull at least 2' further into the intersection before turning. On right turns, this procedure will prevent the unit's wheels from bouncing over the curb, hitting parked cars or pedestrians. On left turns, the unit will swing wide of the cars waiting at the cross street of an intersection.

**BACKING** — Place hand at the bottom of the steering wheel. Move wheel in the direction you want the trailer to go (FIG. 8).

Have an observer stand behind the trailer where you can see him. Work out a set of signals for turning, distance to go, stopping and forward.

If the trailer starts to jackknife, stop, pull forward and start over.

**BRAKING** — Allow sufficient distance to stop safely. Apply towing vehicle and trailer brakes lightly to stop on wet or icy roads. If your vehicle starts to slide, turn the steering wheel in the direction of the

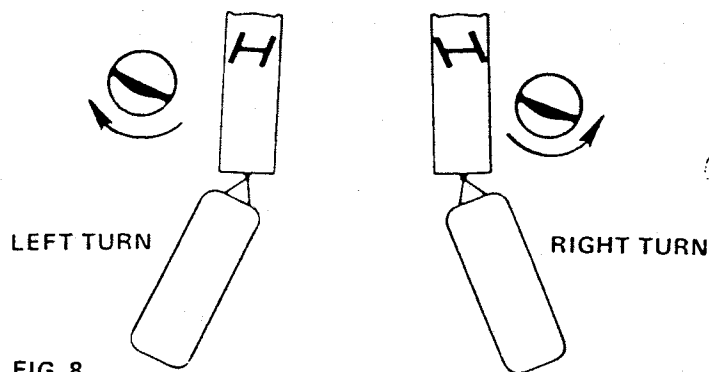


FIG. 8

slide. DO NOT tromp down on the brake pedal — a panic stop will increase the slide. DO drive slowly enough so that you may stop without a panic slide.

DO NOT rest your foot on the brake pedal while driving. Riding the brakes in this manner may cause abnormally high brake temperatures, excessive lining wear, possible brake failure or fire.

**TRAVELING** — Check for oncoming traffic in all directions. Signal before entering the traffic flow. Accelerate slowly and smoothly. DO NOT tromp the accelerator to the floor; jack rabbit starts waste gas.

Stay in the right lane as much as possible. Allow faster vehicles to pass. Some states require slow moving vehicles to pull off the road as soon as possible when four or more vehicles are waiting to pass.

When passing a slower vehicle, remember that additional time and distance will be required to safely accomplish the maneuver. Wait until the road is clear of oncoming traffic for at least one-half mile. Always check the rear view mirrors and signal lane changes before passing another vehicle.

Always maintain at least one combination towing vehicle/trailer length spacing for each 10 MPH from the vehicle in front of yours. DO NOT pull up to a slower moving vehicle while you wait for a chance to pass him. He may unexpectedly slow down or stop.

**SWAYING OR FISHTAILING** — This condition must be eliminated as soon as possible. Either accelerate, then gradually slow down, or briefly apply only the trailer brakes. If these maneuvers do not eliminate the sway, pull off the road and check: tire pressure, proper loading of trailer (*Too much weight behind the axles*), towing vehicle front end alignment and suspension.

**OVERHEATING** — The engine may overheat while climbing and descending steep grades. If your towing vehicle's engine should overheat, pull well off the road. Shift to neutral gear and run the engine with your foot resting lightly on the accelerator pedal. Another method for reducing engine temperature is to operate the automotive heater. If the engine does not cool within 5 minutes, turn it off and locate the problem before continuing with your trip.

Engine temperature problems may be avoided: climb long grades and descend steep grades in second gear; climb steep grades in first gear; turn off the automotive air conditioner (*If towing vehicle is so equipped*).

**HOLDING ON AN UPGRADE** — Use foot brake or parking brake and parking gear to hold both units on

an upgrade. Using driving gear may cause the engine or transmission to overheat.

**PARKING ON A GRADE** — Apply foot brake first; shift transmission to park; apply parking brake; release foot brake.

**OVERHEAD OBSTRUCTIONS** — Tree branches, awnings and other overhead obstructions may damage your trailer's roof, equipment and accessories which are mounted on the roof. Know the height clearance measurement of your trailer.

**FREEDING A STUCK TOWING VEHICLE** — To pull a stuck vehicle out of snow, sand or mud, apply slight pressure on the accelerator pedal and, if vehicle is equipped with automatic transmission, move the gear selector rhythmically between 1st and reverse. If possible, keep the front wheels pointed straight ahead. Avoid sharp turns. Once the towing vehicle starts to move, do not stop until it is on firm ground.

**WARNING:** *DO NOT race the engine or spin the wheels. The transmission will overheat which may cause it to fail.*

**EMERGENCY STOPPING (Travel Trailer)** — If the trailer coupler is jolted off the hitch, steer towards the nearest shoulder of the road and gradually reduce speed. The safety chains, which must be crossed under the coupler and hooked to the hitch platform, will prevent the tongue from dropping to the road. If the break-away pin is pulled from the break-away switch, the trailer brakes will be automatically applied. **DO NOT** slam on the brakes if the coupler bounces off the hitch — the trailer will strike the towing vehicle.

## CAMP SITE SELECTION

Arrive at the campground early enough so that you may inspect and choose a parking site during daylight hours. Check ground firmness — avoid mud, sand and gravel. **DO NOT** camp next to a swamp, stream or other bodies of water — mosquitoes and other insects may be quite bothersome. Check for dead trees and loose limbs — a strong wind may blow them over and damage your unit. Avoid areas which display signs of flash flooding, such as exposed tree roots or other erosion.

**WINTER USAGE** — Park behind a grove of trees, bushes or other type of windbreak. Cover the gap between your unit and the ground with plastic, canvas or other suitable insulating material. These procedures will help maintain a comfortable interior temperature.

## SET UP

**CHECK SIDE-TO-SIDE LEVELNESS** — Using a carpenter's level, check the side-to-side levelness of your unit. Place a leveling ramp (FIG. 1) under the low wheel. Dig a shallow hole under the high wheel. The refrigerator will not operate properly if your unit is not level.

## TRAVEL TRAILER

**UNHITCH UNIT** — Once the unit is level from side-to-side it may be unhitched. Install the dolly wheel (FIG. 4). Crank down the front jack. Place a board under the dolly wheel if the ground is too soft. Unfasten the safety chains from the hitch platform. Disconnect the electrical pigtail connection and break-away cable from the towing vehicle. Lift the lever and

unfasten the coupler from the hitch ball (FIG. 3).

**POSITION JACK STANDS UNDER THE MAIN FRAME MEMBERS** — Crank the front jack counter-clockwise and raise the rear of the trailer by about 2" (5 cm) above level. Place a jack stand at both rear corners, directly under the main frame. Extend each jack until it touches the frame.

Crank the front jack clockwise and raise the front of the trailer about 2" (5 cm) above level. Place a jack stand at both front corners, directly under the main frame. Extend each jack until it touches the frame. Crank front jack counter-clockwise to level your unit.

**NOTE:** *You may purchase jack stands from your Coachmen Dealer.*

## FIFTH WHEEL

**UNHITCH UNIT** — Once the unit is level from side-to-side it may be unhitched. Crank down the jack stands. Place a board under each jack skid during the cold months or when the ground is soft. This procedure will prevent the skids from freezing to the ground or sinking into mud or sand.

Disconnect the electrical pigtail connection and break-away cable from the towing vehicle. Pull the release handle and move vehicle out of the way (FIG. 6).

**POSITION JACK STANDS UNDER THE REAR MAIN FRAME MEMBERS** — Crank the front jack counter-clockwise and raise the rear of the unit about 2" (5 cm) above level. Place a jack stand at both rear corners, directly under the main frame. Extend each jack until it touches the frame. Crank the front jack clockwise to level unit.

**NOTE:** *You may purchase jack stands from your Coachmen Dealer.*

**DOOR STEP** — Lift the front edge and pull the step out to its fullest extent. Remember to push the step back into its traveling position before moving your unit.

**FRONT AWNING** — Pull both release latches (*One is located on each side of the awning*). Swing awning up to desired opening and tighten both wing nuts.

## DINETTE TABLE

**PEDESTAL TYPE** — Insert top of support leg into the bracket located under the bottom surface of the table. Insert the leg into the floor base. Remove the table and the leg before setting up the dinette bed.

**EXTENSION TYPE** — Unfasten travel latch (*If table is so equipped*). Swing up table. Release table leg by appropriate method: depress lever and swing leg down to the locked position; or pull the leg towards the table hinge, after the leg releases swing it down to the locked position.

Unfasten the latch which is located under the table. Pull out the sliding portion of the table. Insert leaf and push table together.

Reverse this procedure before setting up bed.

**HINGE TYPE** — Rotate back edge of table up to the wall brackets. Insert tabs, which are located on the back edge of the table, into the wall brackets. Pull the leg towards the table hinge, after the leg releases swing it down to the locked position.

Reverse this procedure before setting up bed.

## DINETTE BED

**HINGE TYPE** — Pivot the hinge table down to the dinette seat supports. Arrange cushions on top of platform.

**GAUCHO TYPE** — Remove table. Lift front edge of gauch platform and slide it out. Arrange cushions on top of platform.

**FACING GAUCHO PLATFORMS** — Remove table. Slide each platform out as described above.

**"L" TYPE** — Remove table and set up gauch as described above.

**"U" TYPE** — Remove table. Place table on seat supports. Arrange cushions on top of platform.

**OVERHEAD BUNK** — Release latch and push platform towards the end wall. After it clears both brackets, swing it out and place on supports.

**OVERHEAD BED** — Release latch and swing platform down to its supports.

**CABINET/BUNK** — Open both end cabinet doors. Release latches — one is located on each inside end of the cabinet. Close and latch the cabinet doors. Swing cabinet face down so that it rests on its supports. Position reinforcing boards on top of the cabinet face. Arrange cushions on top of platform.

## FIRE EMERGENCY

DO NOT smoke in bed. DO NOT overload the electrical circuits or tamper with fuses, circuit breakers or electrical wiring. DO NOT use a match, lighter or candle to look into a dark closet or drawer. DO NOT leave meals cooking on the stove unattended. DO NOT permit children to play with the controls of either LP Gas or electrical appliances. DO NOT store flammable liquids inside the unit. Plan fire emergency procedures and be sure all members of your group know and understand them. Contact your local fire department for basic firefighting instructions.

If a fire erupts, it must be put out quickly. A fire extinguisher has been included with your unit as standard equipment. It will be found inside the cabinet under the kitchen sink. If you can not put it out with one fire extinguisher, get out. Establish a gathering place outside and at a safe distance from the unit. Telephone the fire department. DO NOT RE-ENTER THE BURNING UNIT.

## DESCRIPTION & OPERATION OF SYSTEMS

(STANDARD & OPTIONAL)

### LP GAS SYSTEM

The Liquefied Petroleum Gas (LPG) System provides fuel for the operation of the range, oven, furnace, water heater and the refrigerator.

Fuel may be purchased from an LPG dealer as listed in the yellow pages section of most telephone books under the heading "Gas — Liquefied Petroleum — Bottled & Bulk." LPG dealers will provide a mixture of propane and butane fuels that will be suitable for use in their geographical area. The proportion of this mixture is determined by the climatic conditions and elevation above or below sea level.

Partially fill tank before traveling to or through an area which experiences different weather conditions or is located at a different elevation. Purchase more fuel in each area.

### LP GAS OPERATIONS

**TURN OFF ALL LPG APPLIANCES** — Turn off the range burners. Extinguish the oven, furnace, water heater and refrigerator pilot lights. If unit is equipped with optional eye level range, extinguish the range burner pilot. See the APPLIANCES & ACCESSORIES section for complete instructions.

**REMOVE TANK** — Close the POL valve (FIG. 9A or B). Turn the POL gas line connector clockwise to unfasten it from the tank.

**Double tanks** — Turn the spinner nut counter clockwise enough to raise the tee bar from both tank handles (FIG. 9A). Remove tank.

**Single Tank** — Loosen the tank retention band nut and remove the tank.

**TRANSPORT TANK TO & FROM DEALER** — Transport the tank to and from the LPG dealer in the upright position. If the tank is laid on its side, the safety valve may accidentally open and liquid gas could leak out.

**HAVE LPG DEALER FILL TANK** — Connect the nozzle to the gas line connector (FIG. 9A or B). Open the 10% and POL valves. Fill the tank. Turn off the gas

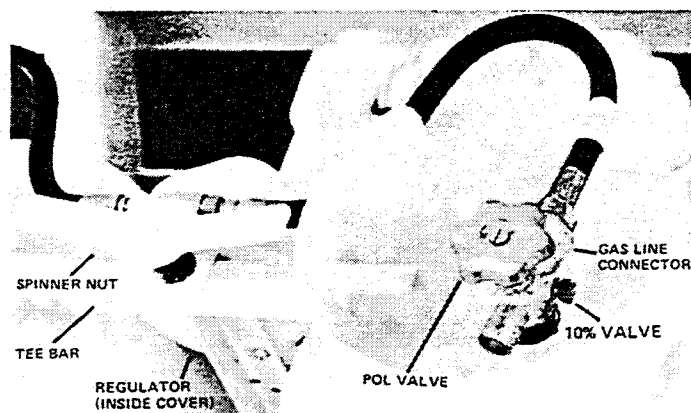


FIG. 9A

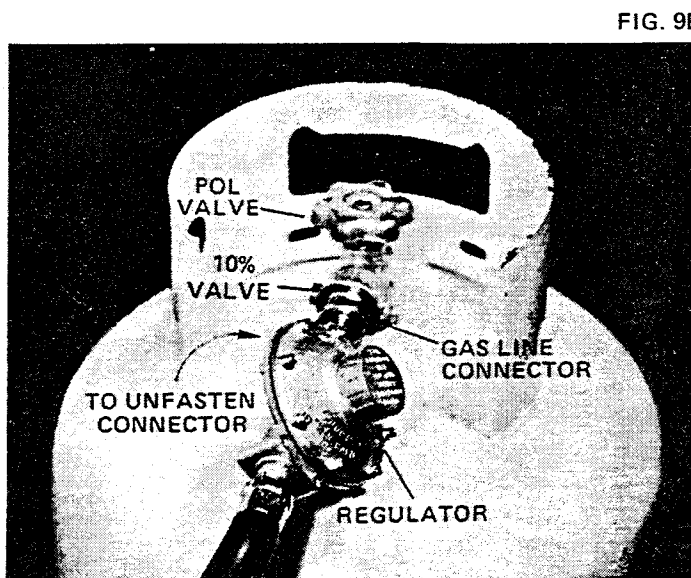


FIG. 9B

supply when liquid appears at the 10% valve. Close the 10% and POL valves and remove the nozzle.

**CAUTION:** DO NOT smoke, strike a match or ignite a lighter when filling the LPG tank. LPG fumes will leak from the nozzle and tank fill connection. A spark or flame may ignite the fumes.

**REINSTALL DOUBLE TANKS** — Lift the tee bar and set the tank on the bottom support plate (FIG. 9A). Tighten the spinner nut so the tee bar holds both tanks in place.

**REINSTALL SINGLE TANK** — Place tank on support plate and tighten the retention band nut.

#### OPEN THE POL VALVE PRIOR TO LIGHTING APPLIANCES

**Double Tanks (Standard)** — Open only one POL valve (FIG. 9A). Both tanks will drain together if both valves are opened at the same time.

**Double Tanks (Optional Changeover Valve)** — Open both POL valves. Turn the indicator knob fully in either direction so it points at one of the tanks. When that tank is nearly empty, an indicator, which is part of the changeover valve, will change color. At the same time, the automatic changeover valve will switch to the other tank. Turn the indicator knob so it points at the other tank.

**NOTE:** Some states prohibit vehicles that are equipped with LPG tanks from using tunnels. A few other states prohibit traveling with the POL valve open and the pilot lights lit. These regulations are based on the premise that a gas line could be ruptured in a highway accident, which may cause a further hazard through fire and/or explosion. Check the regulations of each state through which you intend to travel.

**WATER SYSTEM** — Water may be obtained from either the unit's water tank or city water source.

**WATER TANK** — Open the water fill spout (FIG. 10). Using either a bucket or hose, pour in desired amount of water. Water will flow out of the spout's overflow port when the tank is full. Close and secure the spout.

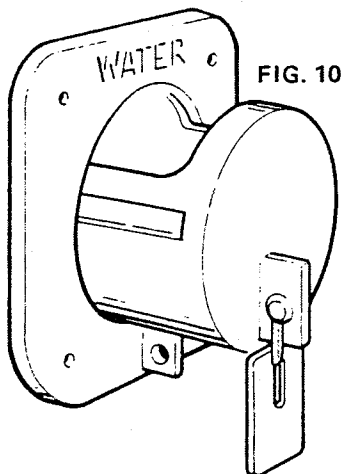


FIG. 10

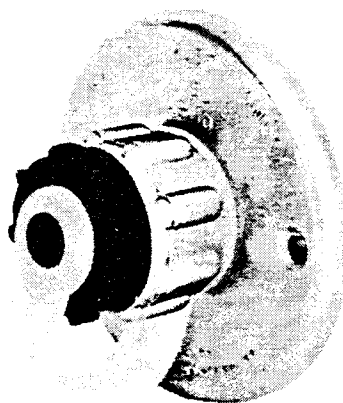


FIG. 11

**CITY WATER** — Connect a water hose to a pressurized water faucet and the city water fixture (FIG. 11). When using the city water hookup, the water tank and pump are bypassed. You cannot fill the water tank through the city water fixture.

**WARNING:** In areas where city water pressure exceeds 60 lbs., you should use a pressure regulator. Excessive water pressure may damage water lines and connections. See your Coachmen Dealer for further details.

**DRAWING WATER FROM TANK** — When you want water from the tank, flip the pump switch to the "On" position and open faucet. The pump has a built-in pressure switch. It will operate for a few minutes, when the switch is first turned on. The pump will shut off automatically when the pressure reaches a preset level. The pump will start again when the pressure drops below the preset level.

**NOTE:** The water pump switch is located on the wall above the kitchen counter.

#### GRAY WATER & TOILET SEWAGE SYSTEMS

**GRAY WATER** — Sink and shower waste water (Gray Water) flows through the drainage system and is drained through the termination valve.

**Set Up** — If gray water is drained from the same termination valve as the holding tank, be sure the tank's dump valve is closed and locked.

Remove valve cap from drain outlet (FIG. 12A or B). Connect sewer hose to outlet and the campground's septic sewage system. If a septic system is not available, place a bucket under the outlet. DO NOT drain gray water on the ground. Besides spoiling the natural beauty of the countryside, you may be breaking a local or state ordinance.

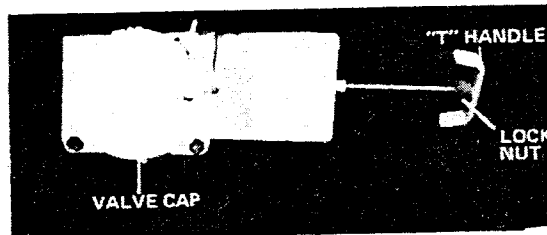


FIG. 12A

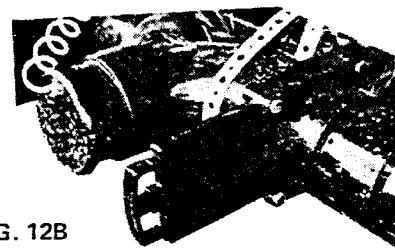


FIG. 12B

**GRAY WATER (STANDARD 16' & 17' CADET TRAVEL TRAILERS)** — Remove cap from exterior drain fixture (FIG. 13). Attach a hose adaptor to the drain fixture. An adaptor may be purchased from your Coachmen Dealer. Attach a water hose to the adaptor and campground septic service. If a septic service is not available, place end of hose in a bucket. Empty the bucket into a permanent sewer drain. DO NOT drain water onto the ground. Besides spoiling the natural beauty of the countryside, you may be breaking a local or state ordinance.

**CAUTION:** Label each hose and bucket either "Fresh Water" or "Drain Water" to avoid contamination of the fresh water system. You must use each water hose in its indicated function.



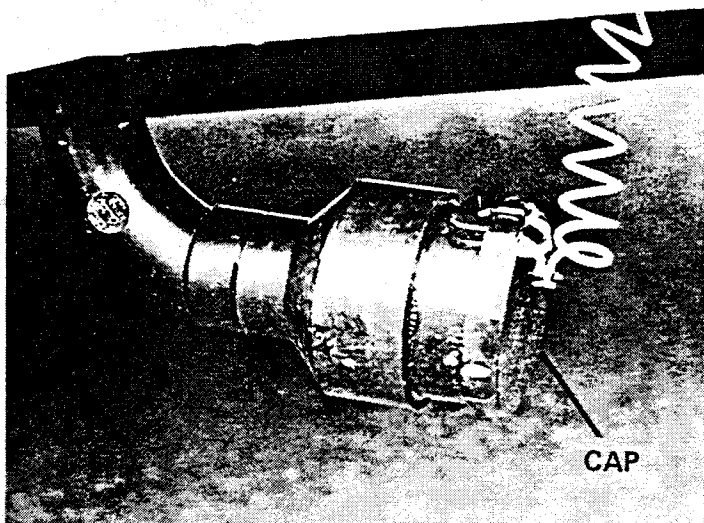


FIG. 13

**GRAY WATER HOLDING TANK (OPTIONAL)** — The optional gray water holding tank effectively increases the time which the unit may be operated in the self-contained mode. Sink, shower, or tub waste water drains into this holding tank. It is recommended that its contents be drained into a septic sewage system as soon as possible after you break camp. Follow the **HOLDING TANK DRAINAGE** instructions.

**TOILET SEWAGE** — The toilet drains directly into the holding tank. Prepare the toilet for useage by following Toilet Preparation instructions contained in the **APPLIANCES & ACCESSORIES** section. It is recommended that the holding tank contents be drained at a holding tank dumping station as soon as possible after you break camp.

**HOLDING TANK DRAINAGE** — Place drainage bucket under the dump valve outlet and remove drain cap (FIG. 12A or B). Connect sewer hose to the outlet and insert the other end into the station's sewage receptacle.

Depending on the type of dump valve used on the unit: either unfasten the dump valve lock nut and pull out the "T" handle (FIG. 12A), or pull out the dump valve handle (FIG. 12B).

Close the valve after the tank has drained. Flush about 2 gallons of water through the toilet into the holding tank. Drain the tank again.

Close and lock the dump valve handle: either tighten the lock nut (FIG. 12A), or make sure the handle is completely pushed into the valve locks (FIG. 12B).

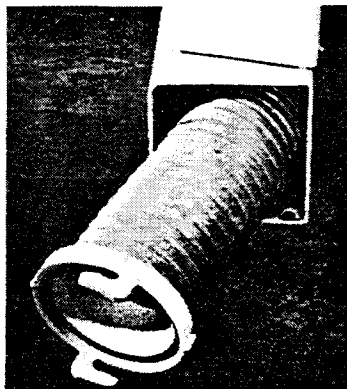


FIG. 14

Remove hose; wash and store it in the rear bumper hose holder (FIG. 14). Prepare the toilet for use as described in the **APPLIANCES & ACCESSORIES** section.

**ELECTRICAL SYSTEMS** — There are essentially two electrical systems used in your trailer: **INTERIOR SYSTEM** — operates the appliances, lights and electrical outlets; **EXTERIOR SYSTEM** — operates the running lights.

**INTERIOR SYSTEM** — Electricity for operation of lights, wall outlets, appliances and other equipment used inside your unit is supplied through the 110 Volt Alternating Current (VAC) shoreline connection.

**Additional Sources of Electrical Power:**

**Cadet Travel Trailers & Cadet Fifth Wheel Models** — An optional battery will provide power to your unit when no shoreline source is available.

**Deluxe Travel Trailers & Quinstar Fifth Wheel Models** — a 12 VDC battery is provided with your unit as standard equipment. This battery will provide power to your unit when a shoreline connection is not available.

**Quinstar Fifth Wheel** — An optional 110 VAC generator will provide an additional source of power to your Quinstar unit when no shoreline source is available.

**Shoreline Connection** — Open the protection hatch and pull out the power cord (FIG. 15A or B). Plug the cord into a 110/125 VAC, 60 Hz. outlet.

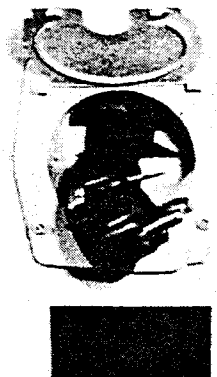


FIG. 15A

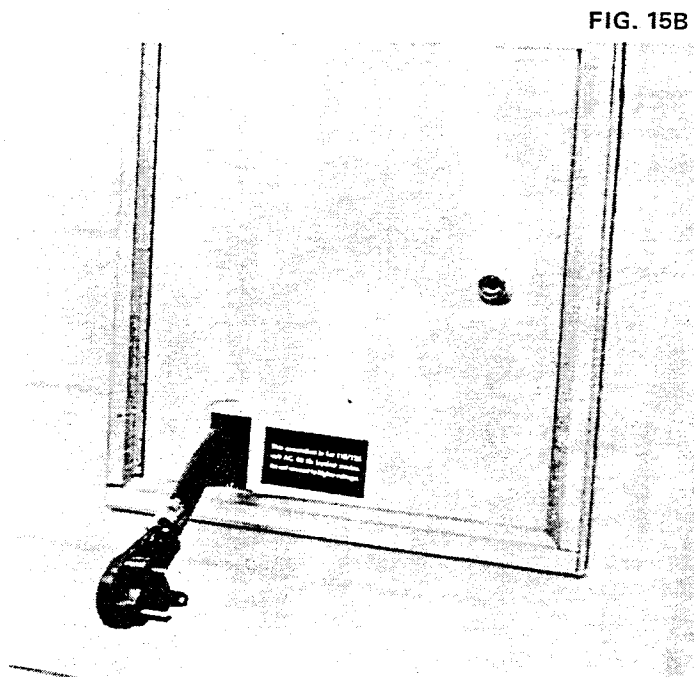


FIG. 15B



**CAUTION:** If a 3-wire grounding adaptor must be used, be sure to attach its grounding wire to the outlet receptacle. If the cord is not properly grounded, the threat of an electrical shock may exist.

**Circuit Breaker** — A conventional circuit breaker protects each 110 VAC circuit. The breaker box will be found on the road side of the unit, on or near the floor, inside a cabinet, hamper, gaucho or dinette seat.

Overloading the circuit will cause the breaker to "Trip" (FIG. 16). To reset: turn off and/or unplug appliances protected by the breaker; press switch down to "Reset" position; lift it to the "On" position. If the breaker continues to trip, contact your Coachmen Dealer.

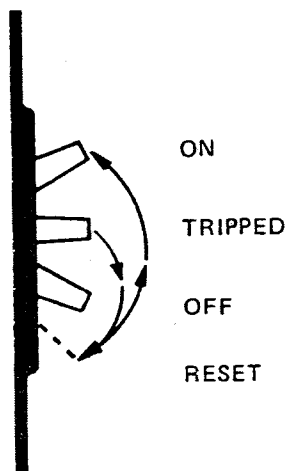


FIG. 16

**Converter** — 110 VAC shoreline input is transformed and converted to 12 VDC output. 15 amp. fuses, which protect the various appliances and accessories, are located inside the converter (FIG. 17).

A fuse may blow if the circuit is overloaded or a defective appliance is operated. A blown fuse is easily detected: the thin metal strip inside the fuse will melt apart due to extreme heat. Pull out the blown fuse and insert another one of the same amperage. If the fuse blows again, contact your Coachmen Dealer.

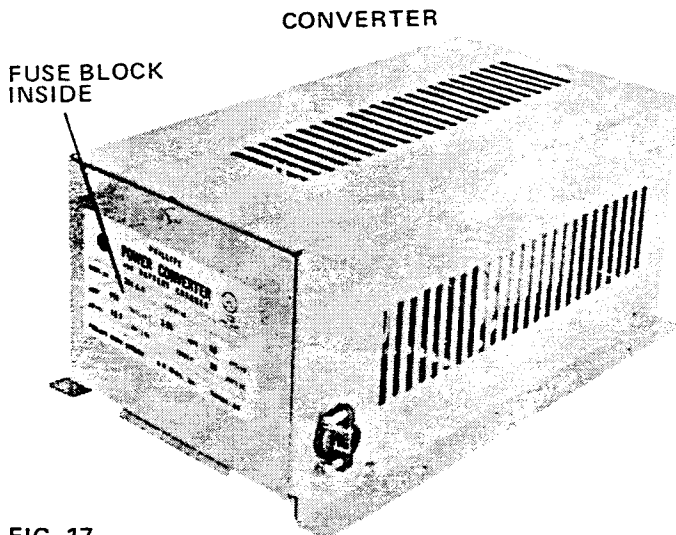


FIG. 17

**Battery** (See Additional Sources of Electrical Power.) — Depending on your trailer model, the battery (Standard or Optional) will be found in one of the following locations:

**Cadet Trailer** — Inside a plastic case which is located on the front "A" frame.

**Cadet Fifth Wheel** — Inside a plastic case which is located at the front of the unit, next to the LPG tanks.

**Deluxe Trailer** — Inside a lockable compartment which, depending on your trailer model, will be located on either the road or curb side.

**QUINSTAR** — Contained in a plastic case which is located inside a lockable compartment. This compartment is located on the curb side of the unit, at the front corner.

**GENERATOR (OPTIONAL-QUINSTAR)** — Follow the Generator Instructions outlined in the APPLIANCES & ACCESSORIES section. The generator/shoreline interconnecting circuit breakers must be switched to: Generator "On" and Shoreline "Off" (FIG. 18).

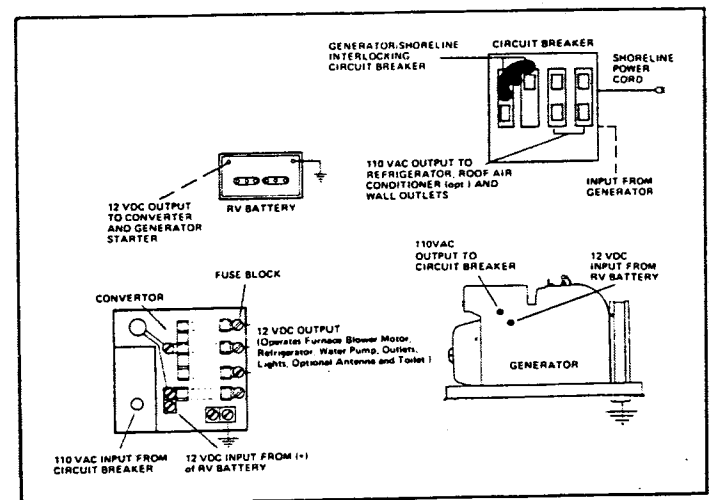


FIG. 18

**EXTERIOR SYSTEM** — All trailer clearance, brake, turn and backup lights are operated by the towing vehicle's 12 VDC electrical system through the pigtail connection.

## APPLIANCES & ACCESSORIES (STANDARD & OPTIONAL)

**RANGE** — Open the POL valve (FIG. 9A or B). Open the range valve and light the burner. A blowing noise, which will occur when the burner is first lit, will subside once all the air has escaped from the LPG line.

**RANGE BURNER PILOT (OPTIONAL EYE LEVEL RANGE)** — The eye level range is equipped with a range burner pilot. Unfasten and remove the range top panel. Open the POL valve (FIG. 9A or B). Strike a match and light the burner pilot (FIG. 19). Adjust the gas flow so the top of the pilot flame is about  $\frac{1}{8}$ " from the burner flash tubes.

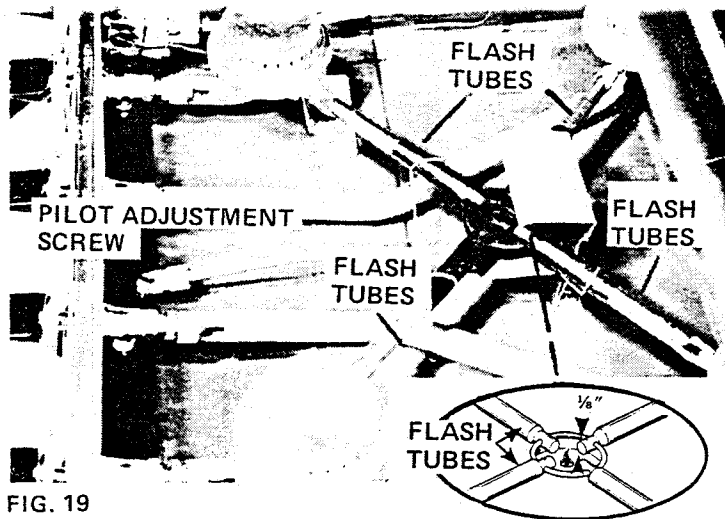


FIG. 19

**CAUTION:** DO NOT use the range burners to heat your unit. A window or roof vent must be open when using the range burners. Failure to heed these cautions may result in asphyxiation.

**OVEN** — Open the POL valve (FIG. 9A or B). Turn the oven temperature control knob from "Pilot Off" to "Off". Strike a match and light the pilot. You will find the pilot inside the oven compartment, just below the main burner (FIG. 20). Relight the pilot if air in the line blows it out. To use the oven, turn the knob to the desired temperature. To extinguish the pilot, turn the knob to "Pilot Off".

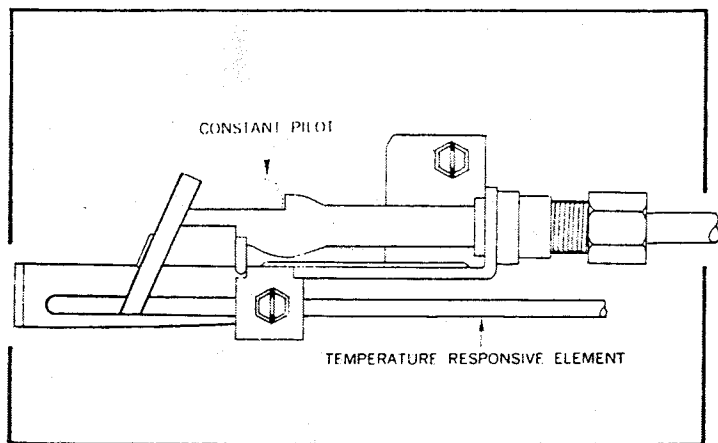


FIG. 20

### GRAVITY FURNACE

**LIGHTING** — Open the POL valve (FIG. 9A or B). Remove the front access panel. Loosen the wing nut and open the burner access plate (FIG. 21A or B). Turn the thermostat or temperature control dial to the "Off" position. Open the furnace LPG valve (FIG. 22). Turn the gas control dial to the "Off" position. Wait 10 minutes, as suggested by the furnace manufacturer, to allow any LPG, which may have accumulated inside the furnace, to dissipate. Turn the temperature control dial to the "Pilot" position. Strike a match; depress dial; light the burner. Hold the dial in for at least 2 minutes, then turn it to the "On" position. Due to air in the LPG lines, it may be necessary to hold the dial in for several minutes before the pilot ignites. Repeat procedure if pilot goes out.

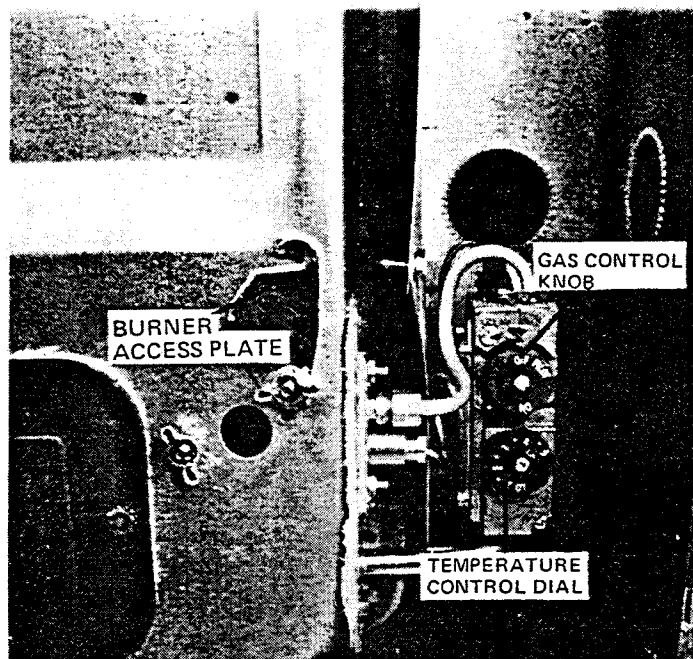


FIG. 21A

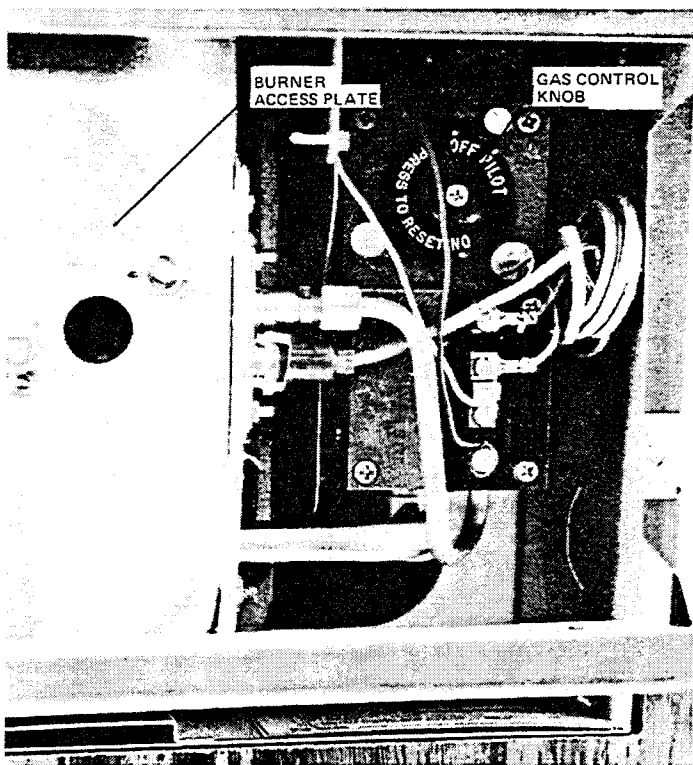


FIG. 21B

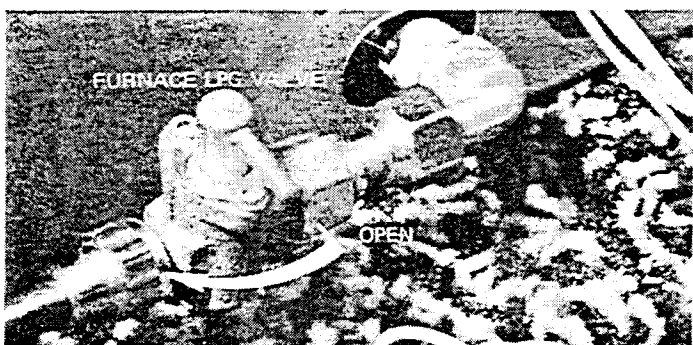


FIG. 22

## FORCED AIR FURNACE

**LIGHTING** — This type of furnace may be lit by either a pilot light or electronic ignitor.

**PILOT LIGHT** — Open the POL valve (FIG. 9A or B). Open the furnace LPG valve (FIG. 22). Set the thermostat's temperature control lever at its lowest temperature. Wait 5 minutes, as suggested by the furnace manufacturer, to allow any LPG, which may have accumulated inside the furnace, to dissipate. Open the furnace cabinet door (*Either unfasten both side latches or release the single thumb latch*). Depress the reset button. Depress the ignition button until a spark occurs (FIG. 23). You may have to hold the reset button in for a few minutes to clear air out of the LPG line. After the burner is ignited, hold the reset button in for at least 2 minutes, then release. Repeat this procedure if the pilot goes out.

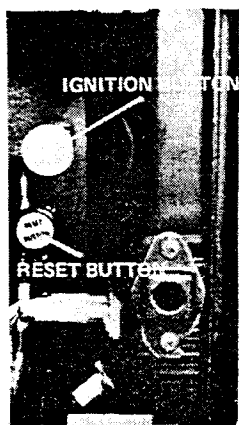


FIG. 23

**ELECTRONIC IGNITOR** — Open the POL valve (FIG. 9A or B). Open the furnace LPG valve (FIG. 22). Set the thermostat's temperature control lever at the desired temperature. If the burner does not light within 15 seconds, reset the lever to the "Off" position. Wait 2 minutes then reset lever to desired temperature. Repeat this procedure until the burner ignites.

**EXTINGUISHING** — Set the thermostat lever at its lowest temperature or "Off" position. Close the furnace LPG valve.

## WATER HEATER

**LIGHTING** — Turn on the POL valve (FIG. 9A or B). Turn the gas control dial to the "Off" position (FIG. 24A or B). Wait at least 5 minutes to allow LPG, which may have accumulated in the burner compartment, to dissipate. Turn the gas control dial to the "Pilot" position. Perform the procedure which applies to the type of thermostat used in your unit's water heater.

**Unitrol Thermostat** — Press and hold the reset button (FIG. 24A). Light the pilot burner (FIG. 25). Release the button after 1 minute. Repeat procedure if pilot goes out. Turn the gas control dial to the "On" position. Adjust the temperature dial to achieve desired water temperature.

**ITT Thermostat** — Turn the gas control dial past the "Pilot" position and hold it against its internal stop (FIG. 24B). Light the pilot burner (FIG. 25). Release the control dial after 1 minute. Repeat procedure if pilot goes out. Turn the gas control dial to the "On" position.

Adjust the temperature dial to achieve desired water temperature.

**PILOT ADJUSTMENT** — Remove the pilot adjustment screw protective cap (FIG. 24A or B). Turn the set screw to adjust the flame so it is  $\frac{1}{2}$ " high or has a yellow tip.

**BURNER ADJUSTMENT** — Loosen the set screw which holds the air shutter in place (FIG. 24A & B). Slide the main burner air shutter to the right until the flame has a yellow tip. Slowly slide the shutter to the left until the yellow tip disappears. Tighten the set screw.

**EXTINGUISHING** — Turn the gas control dial to the "Off" position.

**DRAINING** — Open the drain cock.

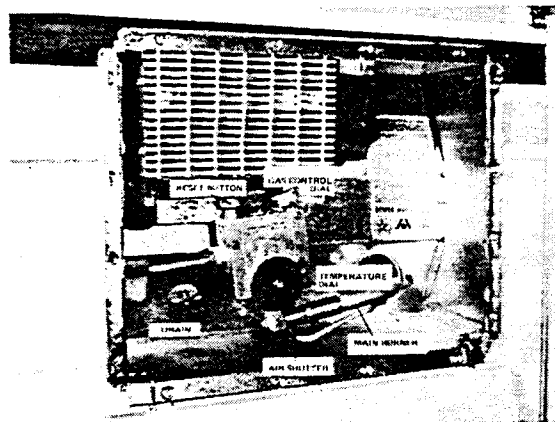


FIG. 24A

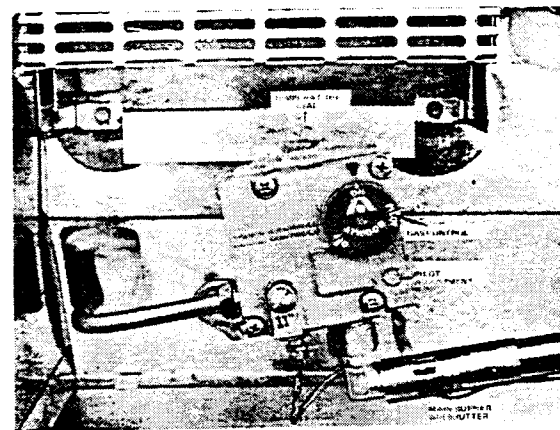
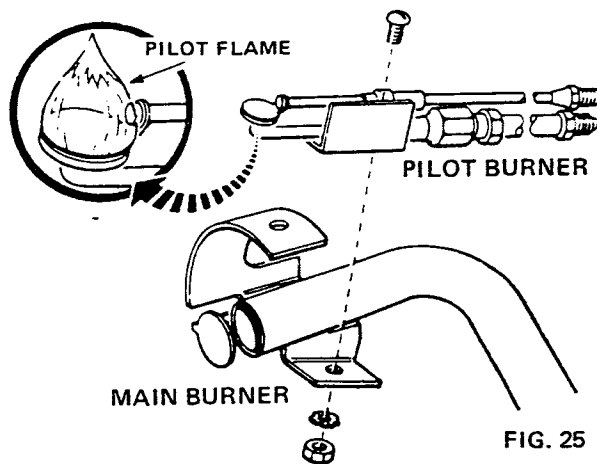


FIG. 24B



## REFRIGERATOR

**LPG OPERATION** — Open the POL valve (FIG. 9A or B). Turn the "Off/12V/Elec/Gas" selector dial to the "Off" position (FIG. 26). Pull out the selector dial and turn it to the "Gas" position. Turn the gas thermostat to setting #4.

Pull out the valve and depress the lighter until a spark occurs. Due to air in the LPG lines, it may be necessary to repeat this procedure several times. Watch the reflector — it indicates when the burner is lit. Hold the valve in the open position (out) for at least 30 seconds after the burner is lit.

**ELECTRIC OPERATION** — Turn the "Off/12V/Elec/Gas" selector dial to the "Off" position. Push in the selector dial and turn it to either "Elec" (110 VAC operation) or "12V" (12 VDC operation). Turn the electric thermostat to setting #4.

**NOTE:** Your unit must be level in order for the refrigerator to operate properly.

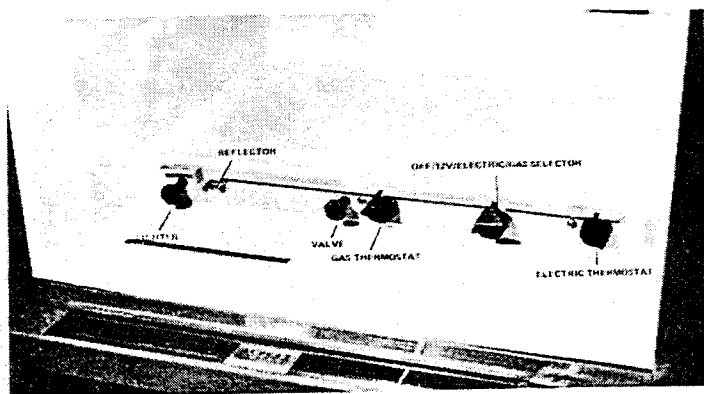


FIG. 26

**ICE BOX** — Place ice in the top tray. Make sure the hose is not kinked or clogged. Water will drain through this tube, as the ice melts, and drip onto the ground.

**HELPFUL HINTS FOR REFRIGERATOR OR ICE BOX** — Store food in sealable containers or wrap in suitable material such as wax paper, aluminum foil, etc. Chill or freeze food in your home refrigerator before traveling.

## TV ANTENNA (OPTIONAL)

**SET UP** — Turn the crank handle in the "Up" direction until some resistance is felt (FIG. 27). Plug the TV set's power cord into either 110 VAC or 12 VDC outlet. Turn on the power supply. The antenna power supply switch and light are part of the main antenna wall outlet.

**TUNING** — Pull the rotating knob down down to disengage it from the ceiling plate. Turn the knob to achieve the best picture and sound.

**TAKE DOWN** — Always lower the antenna before moving your unit. Turn the rotating knob so that its pointer lines up with the ceiling plate pointer. Turn the crank handle in the "Down" direction until some resistance is felt. Turn off the power supply.

**AM/FM/MPX STEREO RADIO & 8 TRACK CARDELUXE STEREO TAPE PLAYER (OPTIONAL WITH DELUXE & QUINSTAR MODELS)**

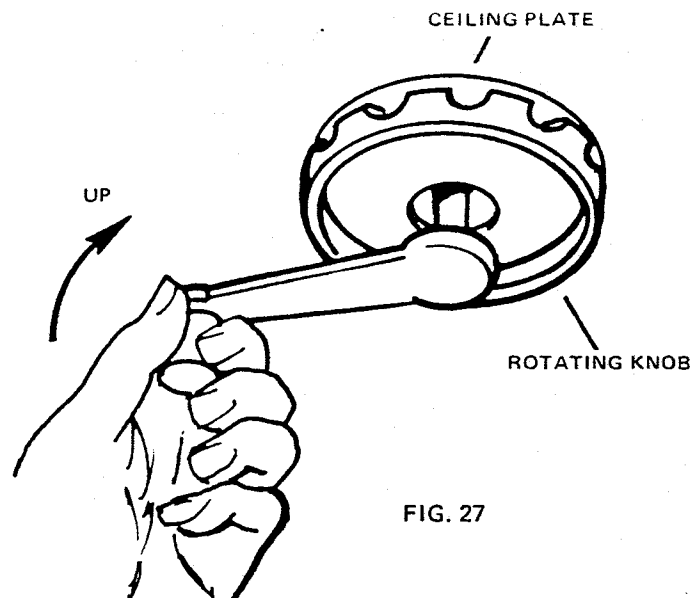


FIG. 27

**RADIO** — The On/Off & Volume, Tone, Tuning and Push Button Station Selector are controls which are located in the same relative position and function in the same manner as those used in most car radios.

**TAPE PLAYER** — Insert an 8-track tape cartridge into the slot. Select desired track by pressing the selection button. Never attempt to turn the tuning knob when the tape player is in use.

## GENERATOR (OPTIONAL QUINSTAR MODELS)

**PRE-OPERATION** — Before each start up, open the generator compartment and check the oil level (FIG. 28). If required, add oil as directed by the generator manufacturer. Flip the circuit breaker switch which is located in the compartment, to the "On" position.

**CAUTION:** When in operation, the engine powering your generator discharges deadly carbon monoxide as part of the exhaust gas. Carbon monoxide is particularly dangerous in that it is odorless, tasteless and colorless. Keep in mind that it can cause death if inhaled for even a short time.

When operating the generator, **DO NOT** open roof vents, windows, or doors which could draw fumes into your unit. **DO NOT** operate the generator where any object, such as a tree, bushes or building may deflect exhaust fumes inside your unit. **DO NOT** operate the generator inside a building unless the exhaust gas is vented safely outside. **DO NOT** operate the generator where exhaust gas could accumulate and seep back inside an occupied building, tent or vehicle.

**START UP** — There is a start/stop switch located on the generator set. The optional start/stop switch, if your unit is so equipped, will be found inside the unit. Depress and hold the switch in the "Start" position until the generator engine starts.

**ELECTRICITY** — Flip the generator/shore line interlocking circuit breakers to the "Generator On" position (FIG. 18). This will automatically turn off the shore-line breaker.

**GENERATOR HOUR METER (OPTIONAL)** — This meter indicates the total running time of the generator.

**SHUT DOWN** — Whenever possible, before shutting off the generator, allow the engine to run a few

minutes with the circuit breakers switched off. This will allow the generator set to cool off. Depress and hold the start/stop switch in the "Stop" position until the engine stops.

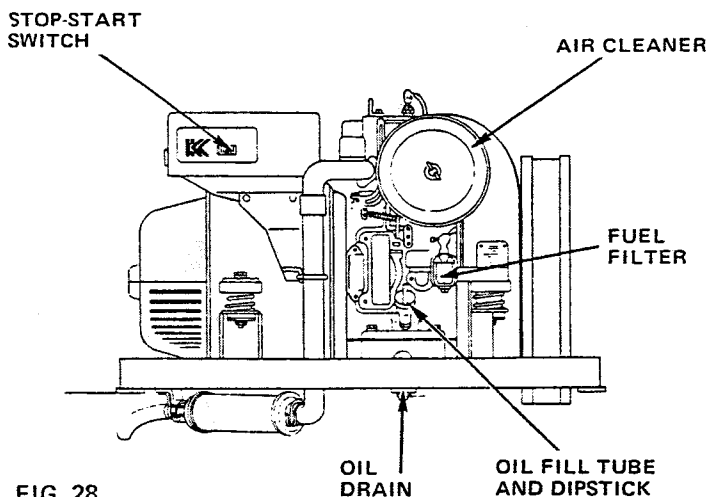


FIG. 28

### ROOF AIR CONDITIONER (OPTIONAL)

**COOLING** — Turn the selector control to desired fan speed within the "Cooling" function. Turn the temperature control to achieve desired coolness.

**AIR RECIRCULATION** — Turn the selector control to desired fan speed within the "Fan Only" function. Turn the temperature control fully counter clockwise.

**DE-HUMIDIFIER** — Turn the selector control to the minimum setting within the "Cooling" function. Turn the temperature control fully counter clockwise. When operating in this mode you may see water running off your unit's roof. Do not be alarmed for this is normal.

**HEATING (OPTIONAL CHILL CHASER)** — Turn the selector control to the "Heating" function. Turn the temperature control to achieve desired warmth.

### TOILET

**AQUA MAGIC III Preparation** — Before initial use and after emptying the holding tank, flush the toilet. After the bowl has filled with water, pour in 8 oz. (227 G) bottle of AQUA KEM concentrate. Flush toilet again.

**Flush** — Turn the flush knob, located on top of the toilet, fully clockwise and hold it until all contents have been swept into the holding tank. Release the knob. The bowl will automatically fill with approximately 1½ to 2" (4 to 5 CM) of water for the next use.

**AQUA MAGIC Preparation** — Before initial use and after emptying the holding tank, step on the small pedal and add about 8" (20 CM) of water to the bowl. Add one 8 oz. (227 G) bottle of AQUA KEM concentrate and flush.

**Flush** — Step on the large pedal until all contents have been swept into the holding tank. Step on the small pedal and add about 1" (3 CM) of water to the bowl.

### PORTA POTTI SAFARI (OPTIONAL 16' & 17' CADET MODELS)

**Preparation** — Lay the toilet down with its large cap up (FIG. 29). Remove large cap and pour in ½ bottle (4 oz.) (193 G) of AQUA KEM concentrate. Replace and tighten the large cap. Set toilet on its base. Remove

small cap and pour in 2 gal. (8 L) of fresh water. Replace and tighten the small cap.

**Flushing** — Simultaneously pull out the slide valve and pump the flushing billows.

**Using** — Before using toilet, pump the flushing billows and add water to the bowl.

**Emptying** — When the contents inside the holding tank are close to the slide valve seal it is time to empty the toilet. Carry the toilet to a permanent facility. Remove the large cap and dump out the contents. Prepare the toilet for use.

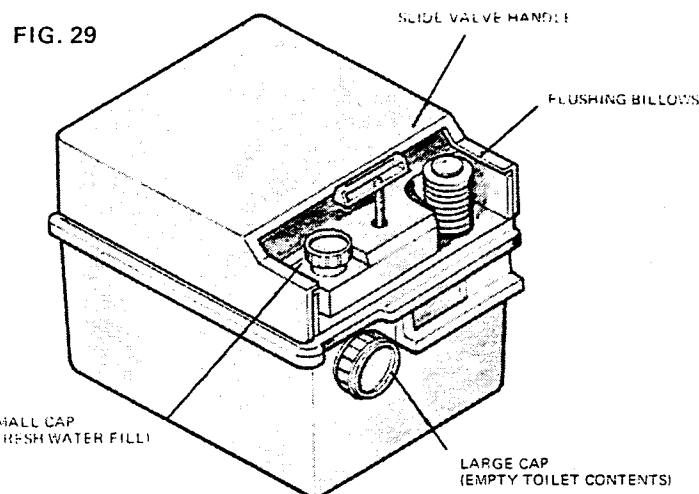


FIG. 29

## CARE & MAINTENANCE LPG SYSTEM

**GAS LINE CHECK** — Check the LPG lines and connections on a regular basis, at least once before, during and after the season. Because gas line connections may work loose during extended trips, we recommend they be inspected after every 3rd refill.

**Gas Line Checking Procedure** — Turn off the range burners. Extinguish the oven, water heater, refrigerator and furnace pilot lights. Open all windows, roof vents and door to allow the LPG to dissipate. Turn on the POL valve (FIG. 30 A or B). Apply soapy water solution to all the LPG line connections (FIG. 31). Bubbles indicate source of leak. Tighten connections with two open end wrenches until bubbles stop. If the garlic odor persists after all joints have been checked and tightened, contact your Coachmen Dealer.

**NOTE:** Coachmen technicians checked your unit's LPG system prior to shipment to your dealer. Because leaks may develop while the unit is in transit from our factory, we recommend that you recheck it before your first trip.

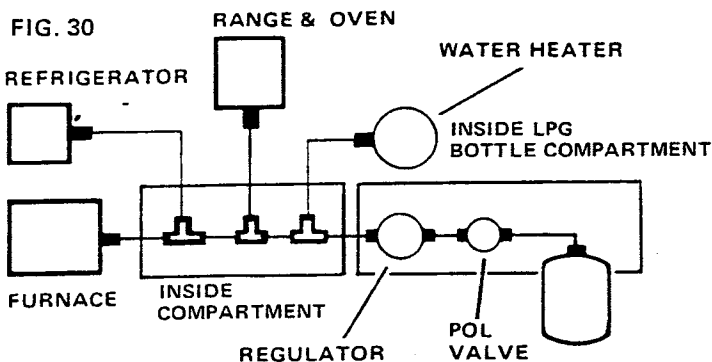


FIG. 30

**REGULATOR PRESSURE** — Check the LPG line pressure at the beginning of each camping season and at least every 3rd refill. Correct line pressure for LPG appliances is 11" water column. Your Coachmen Dealer is equipped to make the necessary appliance and regulator pressure checks.

**LPG TANK UPKEEP** — After each trip, inspect the LPG tank. Sand off all traces of rust. Apply rust preventative paint.

### LPG APPLIANCES

**FURNACE** — The furnace does not require routine maintenance or cleaning. Soot, which may form on the inside of the combustion chamber, may be removed with a vacuum sweeper.

### RANGE

**Burners** — Use a toothpick to clean clogged burner orifices. DO NOT use a metal object, such as an ice pick, screwdriver, wire, etc., to unplug burners. These objects will distort the openings, which in turn will affect burner operation.

**Porcelain Surfaces** — Allow the range top to cool off, then clean with dishsoap and hot water. Porcelain may craze with hairline cracks if you attempt to clean with water while hot. Use a non-abrasive cleaner to remove stubborn stains.

**Chrome Surfaces** — Use a damp cloth to clean chrome surfaces. Grease spatters, which may bake into the surfaces, may be removed with chrome polish.

**OVEN** — Clean the oven with commercial cleaner after each trip. DO NOT apply cleaner to aluminum gas tubing, thermostat sensing bulb and electrical components.

### WATER & DRAIN SYSTEMS

**SANITIZING WATER TANK** — Sanitize your unit's water tank: before initial use; after a period of nonuse; when tank is suspected of being contaminated.

Open the water tank drain cock (FIG. 31). This device is attached directly to the water tank. After the tank is empty, close the cock. Mix 3 gal. (11 L) of water with  $\frac{3}{4}$  cup of Clorox or Purex household bleach. Pour solution into the tank through the water fill spout (FIG. 10). Wait 3 hours. Drain and flush the tank with fresh, potable water. If chlorine taste lingers, pour 1 qt. (.9 L) of vinegar and 5 gal. (19 L) of water into the tank. Wait several days before draining tank. Flush tank with fresh, potable water.

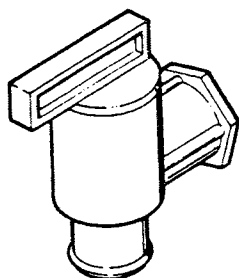


FIG. 31

**WATER PUMP** — The water pump does not require routine maintenance or cleaning.

If water pump fails to start when you flip on the switch, check the fuse. Depending on your model, the

fuse will either be located inside the converter (FIG. 17) or in an in-line fuse holder next to the pump.

If the pump continues to operate whether the faucets are opened or closed, check the water tank — it is probably empty.

**DRAIN PIPING** — Use clear water to clean exterior pipe surfaces. DO NOT use harsh detergents or lacquer thinner. DO NOT pour harsh cleaner chemicals or solvents into the drains.

**AQUA MAGIC III & AQUA MAGIC** — Use AQUA BOWL CLEANER as directed on bottle. If the slide valve does not move freely, apply silicone spray.

**PORTA POTTI SAFARI** — Empty the toilet. Use AQUA BOWL CLEANER as directed on bottle. If the slide valve does not move freely, apply silicone spray.

### ELECTRICAL SYSTEM

**BATTERY** — Check the liquid level at least once a month. It must be above the plate. Add either distilled or other mineral free water. Keep terminals free of dirt and corrosion. Use a hydrometer to check battery charge. When specific gravity is below 1.225 recharge the battery until 1.260 is indicated.

**WARNING:** If the battery must be "Quick Charged," turn off the electrical portion of the refrigerator.

**AM/FM/MPX STEREO RADIO & 8 TRACK CARTRIDGE STEREO TAPE PLAYER** — The tape player is equipped with an automatic head cleaner. Occasionally you will have to clean oxide off the tape playback head, capstan shaft and the automatic tract selector. To activate the capstan, Depress the switch (*Located next to the capstan*) with the eraser end of a pencil. Use a cotton swab, moistened with isopropyl alcohol to clean the playback head, capstan shaft and the automatic track selector.

**WARNING:** DO NOT use Carbon Tetrachloride to clean components of tape player.

**ROOF AIR CONDITIONER** — Remove and clean the filter at least once every two weeks if air conditioner, or Chill Chaser, are used extensively. Wash in soap and water. DO NOT operate air conditioner for extended periods of time without a filter.

**GENERATOR** — The following procedures, along with those procedures specified in the generator manufacturer's manual, should be completed in order to maintain your generator in top operating condition.

Daily or before each start up — Check oil level. Clean cooling air inlets and outlets. Remove loose dirt from generator compartment.

Change oil every 50 hours or 6 months, whichever occurs first. If operating in dirty, dusty conditions, change oil more frequently. Drain oil from crankcase. Use oil specified in the generator manufacturer's manual. Remove the air cleaning element. Clean by tapping it against a flat surface.

After each 100 to 200 hours (depending on operating conditions) — Drive your unit to an authorized service center for the manufacturer's recommended maintenance.

### INTERIOR

**SINKS** — Clean the kitchen and bathroom sinks with non-abrasive material. Stainless steel cleaner may be pur-

chased at any grocery store. ABS cleaner, such as AQUA K-7, may be purchased from your Coachmen Dealer.

**TABLE & COUNTER TOPS** — Clean the table and counter tops with warm water and liquid dishsoap.

**WOODWORK** — Clean woodwork with commercial household furniture polish, DO NOT use water to clean wooden surfaces. Scuffs may be covered with commercial furniture wax and stain mixture. Scratches may be covered with PUTTY STIC.

**VINYL FLOOR COVERING** — Sweep and damp mop the vinyl floor covering regularly. Use a mild detergent and wax occasionally.

**CARPETING** — Vacuum the carpeting (if so equipped) as required. Use commercial carpeting shampoo as required.

**CLOSET, DRAWERS & STORAGE COMPARTMENT(S)** — Remove clothes, linen, can goods and other food items. Clean wooden surfaces with commercial household furniture polish. Wash plastic drawers in warm water and liquid dishsoap.

**REFRIGERATOR** — Remove food, water and ice after each trip. Clean the interior of the refrigerator with warm water and liquid dishsoap. Wipe dry. DO NOT use abrasive cleaning material because it will scratch the surfaces.

If you do not intend to use your unit for an extended period, prop open the door. This will help prevent musty odor within the refrigerator.

Another method you may use to control odor is to place a small jar of coffee grounds, without the lid, on the bottom shelf of the refrigerator. Close the refrigerator door.

To defrost the frozen food compartment: remove frozen food and ice; turn off the thermostat; place a pan of hot water inside the compartment; dry the interior with a clean, soft cloth.

**ICEBOX** — A plastic hose is connected to the ice storage tray. As the ice melts, the water will drain from the tray through the hose and drip onto the ground. A clogged or kinked hose will cause water to back up into the tray. To clear, carefully run a soft wire up through the hose from under the floor.

**CUSHION COVERS** — Vacuum covers regularly to remove soil and dust. To remove stains, follow the upholstery manufacturer's instructions as outlined in their brochure. DO NOT dry clean or machine wash.

**CURTAINS** — Remove curtains and take them to a reputable cleaner. Dry clean only, DO NOT machine or hand wash.

## EXTERIOR

**BODY** — Wash the dust and dirt, road tar, bird and tree droppings, insects and other foreign material from the exterior surfaces. Use a mild soap in either cold or lukewarm water. Apply auto wax at least once a year.

**WARNING:** To avoid marring the body surfaces: DO NOT use abrasive cleaning compound or cloth; DO NOT wipe surfaces with a dry cloth; DO NOT wash or wax unit in the hot sun. Wait until the body surfaces has cooled before washing or waxing.

**ROOF** — Coat all roof seams, roof edges and around vents with top quality roofing cement, at least once

each season. Coat awning rails and window seams with silicone.

Periodically inspect seams for damage and/or cracking. Repair leaky seams with either roofing cement (*roof seams*) or silicone (*awning rail and window seams*).

**FRAME** — Inspect the frame for damage or rust. Sand off all traces of rust. Remove dust and dirt and apply rust preventive paint.

**SAFETY CHAINS & HOOKS** — Inspect safety chains and hooks before each season. Inspect them again before each trip. Replace damaged chains. Federal and SAE regulations prohibit a chain from being repaired by welding damaged links together, or cutting off damaged links and splicing in new ones.

**TIRE INSPECTION** — Inspect tires before each trip. Replace tire when its tread is worn to  $\frac{1}{16}$ " depth in 2 or more adjacent grooves, or to the level of tread indicators which are molded into the bottom of tread grooves. Each morning, check the tire pressure and condition. Note that heat, which is generated by surface friction, will increase a tire's air pressure by approximately 6 to 9 lbs. psi; therefore, do not bleed air out of a hot tire. See the SPECIFICATIONS section which applies to your unit for correct tire air pressure.

When purchasing a new tire, be certain it is the same size and has the same ply rating or load range as the old tire. DO NOT mix radial ply with bias or biasbeltd tires.

**CHANGING TIRE** — Activate towing vehicle's hazard warning flasher. Set up flares or warning lights as required. Chock opposite tire and unhitch trailer from towing vehicle. Place scissors or hydraulic jack directly under the frame, close to the tire you intend to change. DO NOT use a bumper jack, it may damage the floor board or unit sidewall. Raise the jack to take some of the weight off the tire. Loosen the lug bolts. Pull off the old tire and place spare on hub. Replace and tighten the lug bolts. Lower the jack until the tire just touches the ground. Tighten studs to a torque of approximately 85 to 95 ft. lbs. Stop at the nearest service facility and have the torque checked.

**CAUTION:** Before your initial trip and after each time you change a tire, tighten the lug bolts to the specified torque every 50 miles for the first 200.

You will have to replace the lug bolts after changing tires approximately 5 times. These bolts will lose their self-locking feature after about 5 changes.

**ELECTRIC BRAKE** — Inspect the brake drums, lining and shoes at the beginning of each season and before an extended trip. See your Coachmen Dealer for further information.

**WHEEL BEARINGS** — Check wheel bearings at the beginning of each season and before an extended trip. See your Coachmen Dealer for further information.

## STORAGE

**GENERAL** — Perform the following procedures and those contained in the CARE & MAINTENANCE section before storing unit for any period of time. Follow the WINTERIZING section before storing unit during cold months.

**WATER TANKS & LINES** — Turn on the water pump.



Open all water faucets. Open the tank drain cock (FIG. 32). Open the hot and cold water line drains. Both drains are located together under the same side of the unit. Depending on the type of drains used, either remove caps or open the valves.

When the tank is empty, close the faucets and drains.

**WATER PUMP** — After the water tank is empty, disconnect the intake and discharge hoses from the water pump. Operate the pump for about 2 minutes after all the water has been expelled. Reconnect the hoses.

#### **TOILET**

**AQUA MAGIC III** — Turn the flush knob and insert a wad of rolled up newspaper into the bowl outlet. Release the knob slowly until the blade holds the wad in place. This will prevent any water residue from being trapped inside the bowl where it could freeze.

**AQUA MAGIC** — Depress the large foot pedal and insert a wad of rolled up newspaper into the bowl outlet. Release the pedal slowly until the blade holds the wad in place. This will prevent any water residue from being trapped inside the bowl where it could freeze.

**PORTA POTTI SAFARI** — Empty the holding tank as described in the **APPLIANCES & ACCESSORIES** section. Remove small cap and pour out water. Rinse out both sections with fresh water.

**BATTERY** — Remove battery from case or compartment. Store it in a warm, dry place. Set it on a block of wood.

**CAUTION:** *Hydrogen gas is produced through a chemical action — this is a normal trait of any storage battery. Hydrogen gas is toxic and extremely combustible when mixed with air. DO NOT store battery where it will be exposed to sparks or open flame, nor where it may be touched by children.*

**ELECTRICAL** — Unplug all electrical appliances and turn off all electrical circuit breakers.

**GENERATOR** — While the engine is hot, drain oil from the crankcase (FIG. 28). Flush the crankcase with clean, light weight oil as specified in the generator manufacturer's manual. Refill the crankcase with speci-

fied type of oil — again see the generator manufacturer's manual.

Drain fuel from the filter sediment bowl and carburetor bowl (FIG. 28).

Remove the spark plug and pour about a tablespoon of oil into the hole. Crank the engine over several times and reinstall the spark plug.

Clean the exterior surfaces of the generator set. Spread a light film of oil over the unpainted metallic surfaces which could corrode.

Place a dust cover over the generator set.

**RUNNING GEAR** — Block up the unit to take some of the weight off the tires. This will prevent flat spots from developing on the tires and wheel bearings. To block the unit: lower front of unit about 3" (7 CM), place jack stand *directly under the frame*; extend jack until it touches the frame; raise the front of the unit enough to remove some of the weight from the tires.

**PERIODIC INSPECTION** — Check unit occasionally during prolonged periods of storage.

## **WINTERIZING**

Protect the toilet, fresh water system and the drains from freeze damage before using unit during cold months.

#### **TOILET**

**AQUA MAGIC & AQUA MAGIC III** — Follow the **WATER TANK ANTI-FREEZE** instructions outlined below.

**PORTA-POTTI SAFARI** — Pour 1 gal. (4L) of non-toxic plastic pipe anti-freeze and 1 gal. (4L) of fresh water through the toilet's large cap (FIG. 30).

**WATER TANK ANTI-FREEZE** — Open the water tank fill spout (FIG. 10). Pour in a combination of potable water and potable water anti-freeze. Turn on the water pump and briefly open the kitchen and lavatory faucets. This will circulate the anti-freeze and water solution throughout the water lines. Potable water anti-freeze may be purchased from any Coachmen Dealer.

**DRAINS** — Pour about ½ cup of approved anti-freeze solution into all sink, tub and/or shower drains.

**CAUTION:** *DO NOT use automotive anti-freeze in the toilet, fresh water system or drains — it is poisonous.*



## APPLIANCE IDENTIFICATION FORM

Should your unit or one of the appliances require warranty service, you will have to identify the manufacturer, model designator and serial number. Fill in this form as soon as possible. It will help you meet our identification requirement. Depending on your unit, certain items listed below may not be offered as either optional and/or standard.

EQUIPMENT	MANUFACTURER	MODEL DESIGNATOR	SERIAL NUMBER
Travel Trailer/or Fifth Wheel	COACHMEN		
Furnace			
Range & Oven			
Converter			
Refrigerator			
Water Pump			
Water Heater			
Roof Air Conditioner			
Radio			
Antenna			
Generator			
Toilet			
Door Key			
Exterior Storage compartment keys			

# TRAVEL RECORD

[illegible]

## EMERGENCY CONTACTS

DOCTOR	NAME	_____	NAME	_____
	ADDRESS	_____	ADDRESS	_____
	PHONE	(AC ) _____	PHONE	(AC ) _____
RELATIVE	NAME	_____	NAME	_____
	ADDRESS	_____	ADDRESS	_____
	PHONE	(AC ) _____	PHONE	(AC ) _____
NEIGHBOR	NAME	_____	NAME	_____
	ADDRESS	_____	ADDRESS	_____
	PHONE	(AC ) _____	PHONE	(AC ) _____
FRIEND	NAME	_____	NAME	_____
	ADDRESS	_____	ADDRESS	_____
	PHONE	(AC ) _____	PHONE	(AC ) _____
POLICE	PHONE	(AC ) _____	PHONE	(AC ) _____
	PHONE	(AC ) _____		
FIRE	PHONE	_____		
INSURANCE AGENT	NAME	_____	NAME	_____
	ADDRESS	_____	ADDRESS	_____
	PHONE	(AC ) _____	PHONE	(AC ) _____

## SPECIFICATIONS

### CADET TRAVEL TRAILERS

	LENGTH	WIDTH	HEIGHT	CENTER LINE DISTANCE	DRY WEIGHT		GROSS AXLE WEIGHT RATING (GAWR)	*APPROXIMATE CAPACITY	HITCH BALL HEIGHT	HITCH BALL SIZE	TIRE SIZE/PLY RATING AIR PRESSURE
					AXLE WT.	PIN WT.					
16'	16'-9"	92"	8'-6"	129½"	1932 lb.	405 lbs.	3500 lbs.	1568 lbs.	18"	2½"	8:55 x 15 / 6pr
	511 cm.	234 cm.	259 cm.	329 cm.	876 kg.	183 kg.	1586 kg.	710 kg.	46 cm.	5.9 cm.	50 psi
17'	17'-3"	92"	8'-6"	138½"	2051 lbs.	450 lbs.	3500 lbs.	1449 lbs.	18"	2½"	8:55 x 15 / 6pr
	526 cm.	234 cm.	259 cm.	352 cm.	929 kg.	204 kg.	1586 kg.	656 kg.	46 cm.	5.9 cm.	50 psi.
19½'	19'-9½"	92"	8'-6"	146½"	2670 lbs.	460 lbs.	5020 lbs.	2350 lbs.	18"	2½"	7:75 x 15 / 4pr
	603 cm.	234 cm.	259 cm.	372 cm.	1210 kg.	208 kg.	2274 kg.	1065 kg.	46 cm.	5.9 cm.	35 psi
20'	20'-5"	92"	8'-6"	155"	2870 lbs.	510 lbs.	5020 lbs.	2150 lbs.	18"	2½"	7:75 x 15 / 4pr
	622 cm.	234 cm.	259 cm.	394 cm.	1300 kg.	231 kg.	2274 kg.	974 kg.	46 cm.	5.9 cm.	35 psi
20½'	20'-6½"	92"	8'-6"	155"	2800 lbs.	500 lbs.	5020 lbs.	2220 lbs.	18"	2½"	7:75 x 15 / 4pr
	626 cm.	234 cm.	259 cm.	394 cm.	1268 kg.	227 kg.	2274 kg.	1006 kg.	46 cm.	5.9 cm.	35 psi
21'	20'-10"	92"	8'-6"	157"	2890 lbs.	540 lbs.	5020 lbs.	2130 lbs.	18"	2½"	7:75 x 15 / 4pr
	635 cm.	234 cm.	259 cm.	399 cm.	1309 kg.	245 kg.	2274 kg.	965 kg.	46 cm.	5.9 cm.	35 psi
22'	22'-0"	92"	8'-6"	172½"	2910 lbs.	560 lbs.	5020 lbs.	2110 lbs.	18"	2½"	7:75 x 15 / 4pr
	671 cm.	234 cm.	259 cm.	438 cm.	1318 kg.	254 kg.	2274 kg.	956 kg.	46 cm.	5.9 cm.	35 psi
24'	24'-6"	92"	8'-6"	180½"	3290 lbs.	550 lbs.	5020 lbs.	1730 lbs.	18"	2½"	7:75 x 15 / 4pr
	747 cm.	234 cm.	259 cm.	458 cm.	1490 kg.	249 kg.	2274 kg.	784 kg.	46 cm.	5.9 cm.	35 psi
27'	27'-5"	92"	8'-6"	203¾"	3760 lbs.	510 lbs.	7000 lbs.	3240 lbs.	18"	2½"	8:55 x 15 / 6pr
	836 cm.	234 cm.	259 cm.	518 cm.	1703 kg.	231 kg.	3121 kg.	1468 kg.	46 cm.	5.9 cm.	50 psi

**\*NOTE:** Approximate Capacity depends on many variables, such as added option weight, added weight of water, and LP Gas and cargo, along with the distribution of these items within the trailer and the weight transfer effect of an equalization hitch.

# DELUXE TRAVEL TRAILERS

	LENGTH	WIDTH	HEIGHT	CENTER LINE DISTANCE	DRY WEIGHT		GROSS AXLE WEIGHT RATING (GAWR)	*APPROXIMATE CAPACITY	HITCH BALL HEIGHT	HITCH BALL SIZE	TIRE SIZE/PLY RATING AIR PRESSURE
					STANDARD, NO OPTIONS	PIN WT.					
COLUMBIAN 22'	22'-4"	92"	8'-11"	168"	3630 lbs.	600 lbs.	7000 lbs.	3370 lbs.	19"	2 <sup>5</sup> / <sub>16</sub> "	8:55 x 15 / 6pr
	681 cm.	234 cm.	272 cm.	427 cm.	1644 kg.	272 kg.	3171 kg.	1527 kg.	48 cm.	5.9 cm.	50 psi
CORONADO 24'	24'-4"	92"	8'-11"	186.5"	3720 lbs.	620 lbs.	7000 lbs.	3288 lbs.	19"	2 <sup>5</sup> / <sub>16</sub> "	8:55 x 15 / 6pr
	742 cm.	234 cm.	272 cm.	474 cm.	1685 cm.	281 kg.	3171 kg.	1489 kg.	48 cm.	5.9 cm.	50 psi
CRUSADER 24'	24'-4"	92"	8'-11"	186.5"	3750 lbs.	660 lbs.	7000 lbs.	3250 lbs.	19"	2 <sup>5</sup> / <sub>16</sub> "	8:55 x 15 / 6pr
	742 cm.	234 cm.	272 cm.	474 cm.	1699 kg.	299 kg.	3171 kg.	1472 kg.	48 cm.	5.9 cm.	50 psi
CLIPPER 24'	24'-4"	92"	8'-11"	186.5"	3670 lbs.	720 lbs.	7000 lbs.	3330 lbs.	19"	2 <sup>5</sup> / <sub>16</sub> "	8:55 x 15 / 6pr
	742 cm.	234 cm.	272 cm.	474 cm.	1663 kg.	326 kg.	3171 kg.	1508 kg.	48 cm.	5.9 cm.	50 psi
CHAPARRAL 25'	25'-10"	92"	8'-11"	194"	3910 lbs.	640 lbs.	7000 lbs.	3090 lbs.	19"	2 <sup>5</sup> / <sub>16</sub> "	8:55 x 15 / 6pr
	787 cm.	234 cm.	272 cm.	493 cm.	1771 kg.	290 kg.	3171 kg.	1400 kg.	48 cm.	5.9 cm.	50 psi
CRESTWOOD 25'	25'-10"	92"	8'-11"	193"	4020 lbs.	660 lbs.	7000 lbs.	2980 lbs.	19"	2 <sup>5</sup> / <sub>16</sub> "	8:55 x 15 / 6pr
	787 cm.	234 cm.	272 cm.	490 cm.	1821 kg.	299 kg.	3171 kg.	1350 kg.	48 cm.	5.9 cm.	50 psi
BUNKHOUSE 27'	27'-4"	92"	10'-0"	213"	4375 lbs.	810 lbs.	7000 lbs.	2625 lbs.	20"	2 <sup>5</sup> / <sub>16</sub> "	8:55 x 15 / 6pr
	833 cm.	234 cm.	305 cm.	541 cm.	1982 kg.	367 kg.	3171 kg.	1189 kg.	51 cm.	5.9 cm.	50 psi
CONTINENTAL 27'	27'-4"	92"	8'-11"	204"	4240 lbs.	670 lbs.	7000 lbs.	2760 lbs.	19"	2 <sup>5</sup> / <sub>16</sub> "	8:55 x 15 / 6pr
	833 cm.	234 cm.	272 cm.	518 cm.	1921 kg.	304 kg.	3171 kg.	1250 kg.	48 cm.	5.9 cm.	50 psi
CAMBRIDGE 29'	29'-4"	92"	9'-0"	225"	4455 lbs.	800 lbs.	7000 lbs.	2545 lbs.	20"	2 <sup>5</sup> / <sub>16</sub> "	8:55 x 15 / 6pr
	894 cm.	234 cm.	274 cm.	572 cm.	2018 kg.	362 kg.	3171 kg.	1153 kg.	51 cm.	5.9 cm.	50 psi
CROWN 31'	31'-4"	92"	9'-0"	239"	4610 lbs.	800 lbs.	7000 lbs.	2390 lbs.	20"	2 <sup>5</sup> / <sub>16</sub> "	8:55 x 15 / 6pr
	955 cm.	234 cm.	274 cm.	607 cm.	2088 kg.	362 kg.	3171 kg.	1083 kg.	51 cm.	5.9 cm.	50 psi

\*NOTE: Approximate Capacity depends on many variables, such as added option weight, added weight of water, and LP Gas and cargo, along with the distribution of these items within the trailer and the weight transfer effect of an equalization hitch.

# FIFTH WHEEL TRAILERS

CADET	LENGTH	WIDTH	HEIGHT	CENTER LINE DISTANCE	DRY WEIGHT		GROSS AXLE WEIGHT RATING (GAWR)	* APPROXIMATE CAPACITY	GROUND CLEARANCE	KING PIN SIZE	TIRE SIZE/PLY RATING AIR PRESSURE
					AXLE WT.	PIN WT.					
26'	25'-7"	96"	9'-10"	211 3/4"	3795 lbs.	1370 lbs.	7000 lbs.	3205 lbs.	51 1/2"	2"	8:55 x 15 / 6pr
	780 cm.	244 cm.	299 cm.	538 cm.	1719 kg.	621 kg.	3171 kg.	1452 kg.	131 cm.	5.1 cm.	50 psi
28'	28'-4"	96"	9'-10"	225 3/4"	4200 lbs.	1560 lbs.	7000 lbs.	2800 lbs.	51 1/2"	2"	8:55 x 15 / 6pr
	863 cm.	244 cm.	299 cm.	573 cm.	1903 kg.	707 kg.	3171 kg.	1268 kg.	131 cm.	5.1 cm.	50 psi
QUINSTAR											
27'	27'-5"	96"	9'-10"	213"	4420 lbs.	1750 lbs.	7000 lbs.	2580 lbs.	51 1/2"	2"	8:55 x 15 / 6pr
	836 cm.	244 cm.	299 cm.	541 cm.	2002 kg.	793 kg.	3171 kg.	1169 kg.	131 cm.	5.1 cm.	50 psi
29'	29'-5"	96"	9'-10"	237"	4410 lbs.	1670 lbs.	7000 lbs.	2590 lbs.	51 1/2"	2"	8:55 x 15 / 6pr
	897 cm.	244 cm.	299 cm.	602 cm.	1998 kg.	757 kg.	3171 kg.	1173 kg.	131 cm.	5.1 cm.	50 psi
31' TG	31'-5"	96"	9'-11"	251"	4470 lbs.	1870 lbs.	7000 lbs.	2530 lbs.	51 1/2"	2"	8:55 x 15 / 6pr
	958 cm.	244 cm.	302 cm.	638 cm.	2025 kg.	847 kg.	3171 kg.	1146 kg.	131 cm.	5.1 cm.	50 psi
31' FS	31'-5"	96"	9'-11"	251"	4685 lbs.	1810 lbs.	7000 lbs.	2315 lbs.	51 1/2"	2"	8:55 x 15 / 6pr
	958 cm.	244 cm.	302 cm.	638 cm.	2122 kg.	820 kg.	3171 kg.	1049 kg.	131 cm.	5.1 cm.	50 psi
33'	33'-5"	96"	9'-11"	265"	4850 lbs.	1690 lbs.	7000 lbs.	2150 lbs.	52 1/2"	2"	8:55 x 15 / 6pr
	673 cm.	244 cm.	302 cm.	673 cm.	2197 kg.	766 kg.	3171 kg.	974 kg.	133 cm.	5.1 cm.	50 psi
33' SS	33'-5"	96"	9'-11"	265"	4965 lbs.	1720 lbs.	7000 lbs.	2035 lbs.	52 1/2"	2"	8:55 x 15 / 6pr
	673 cm.	244 cm.	302 cm.	673 cm.	2249 kg.	779 kg.	3171 kg.	922 kg.	133 cm.	5.1 cm.	50 psi
35'	35'-5"	96"	9'-11"	279"	5310 lbs.	1960 lbs.	8800 lbs.	3490 lbs.	52 1/2"	2"	7:00 x 15 / 8pr
	1080 cm.	244 cm.	302 cm.	709 cm.	2405 kg.	888 kg.	3986 kg.	1581 kg.	133 cm.	5.1 cm.	60 psi

\*NOTE: Approximate Capacity depends on many variables, such as added option weight, added weight of water, and LP Gas and cargo, along with the distribution of these items within the trailer and the weight transfer effect of an equalization hitch.

## APPLICABLE TO ALL UNITS

### LIGHT BULBS

Interior 12 VDC	#1141
Range Hood	25 Watt, 12 VDC
Turn, Tail & Stop	#1157
Backup	#1156
License Plate	#67
Clearance	#1895
Patio	#93

### COLOR CODE FOR PIGTAIL

White	— Common to Ground
Red	— Stop & Left Turn
Brown	— Stop & Right Turn
Green	— Tail, Running & License Plate
Blue	— Electric Brake
Yellow	— Backup
Black	— Converter

WATER PUMP FUSE: 6 1/4 Amp. Slo Blo



**TRAVEL TRAILER & FIFTH WHEEL OWNER'S MANUAL**

**Serial No.**\_\_\_\_\_



COACHMEN DRIVE  
MIDDLEBURY, INDIANA 46540